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FILE COVERS 1907 - 2 Dec 2009 VOL 151 ISS 23  
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 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2009  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

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=> d 145 bib abs hitstr tot

L45 ANSWER 1 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2006:752371 HCAPLUS Full-text

DN 145:230657

TI Disubstituted cucurbit[6]urils and preparing method thereof

IN Ju, Jeong Min; Kim, Gi Mun; Lee, Jae Uk; Oh, Dong Hyeon

PA Postech Foundation, S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

LA Korean

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	KR 2004069814	A	20040806	KR 2003-6356	20030130 <--
PRAI	KR 2003-6356		20030130	<--	

AB Disubstituted cucurbit[6]urils and a preparing method thereof are provided, thereby easily introducing the substituents into cucurbit[6]urils, so that cucurbit[6]urils can be covalently bound to biochem. compds., solid surface and solid substrate. The method for preparing disubstituted cucurbit[6]urils comprises reacting glycolurils with formaldehyde.

IT 283175-97-3DP, derivs.

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

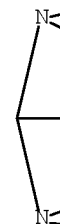
(method for the preparation of disubstituted cucurbit[6]urils)

RN 283175-97-3 HCAPLUS

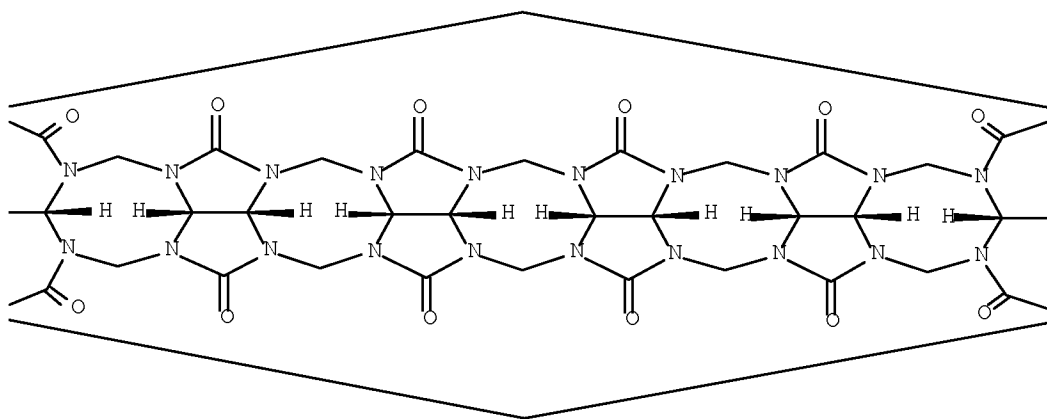
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 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-, stereoisomer (CA  
 INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 1-B



PAGE 1-C

L45 ANSWER 2 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2006:53781 HCAPLUS Full-text  
 DN 144:130396  
 TI Photostabilisation of fluorescent dyes in the presence of cucurbiturils.  
 IN Nau, Werner; Mohanty, Jyotirmayee  
 PA International University Bremen G.m.b.H., Germany  
 SO PCT Int. Appl., 38 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

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PI	WO 2006005727	A1	20060119	WO 2005-EP53274	20050708 <--	
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	RW:			AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	DE 102004033050	A1	20060126	DE 2004-102004033050	20040708 <--	
	EP 1765942	A1	20070328	EP 2005-762942	20050708 <--	
	EP 1765942	B1	20071114			
	R:			AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR		
	AT 378385	T	20071115	AT 2005-762942	20050708 <--	
	US 20080023646	A1	20080131	US 2007-631628	20070319 <--	
	US 7511284	B2	20090331			
PRAI	DE 2004-102004033050	A	20040708	<--		
	WO 2005-EP53274	W	20050708			

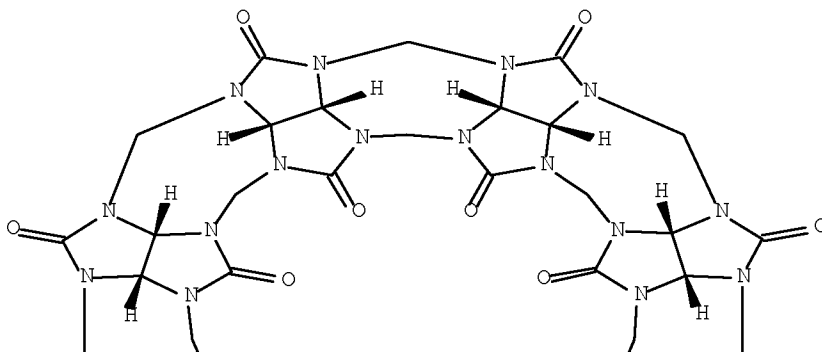
# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Photostability of aqueous solns. xanthene, cyanine, oxazine and coumarin dyes is increased in the presence of cucurbiturils without any essential changing of their absorption spectra and fluorescent quantum yields. Thus, adding 1 - 2 mmol cucurbit[7]uril to 1 - 10  $\mu$ m aqueous solution of rhodamine 6G increases its stability to laser irradiation (532 nm) in 30 - 5,000 times depending upon intensity of the irradiation

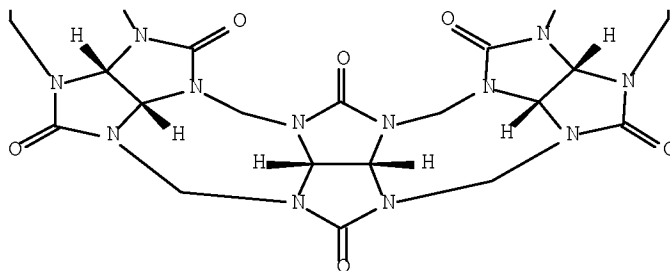
IT 259886-50-5, Cucurbit[7]uril 259886-51-6,  
 Cucurbit[8]uril 283175-97-3, Cucurbit[6]uril  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (cucurbiturils as photostabilizers for fluorescent dyes)  
 RN 259886-50-5 HCAPLUS  
 CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
 a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
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 ''',3''''':3''',4''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':  
 3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
 1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-,  
 stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 2-A

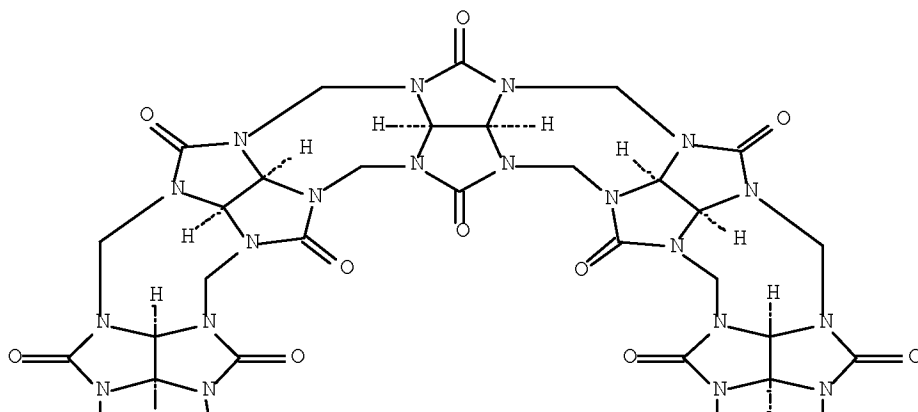


RN 259886-51-6 HCAPLUS  
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 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
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 3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-

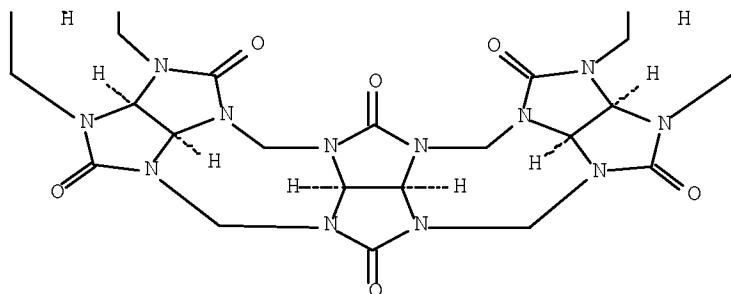
1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone, hexadecahydro-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



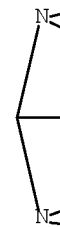
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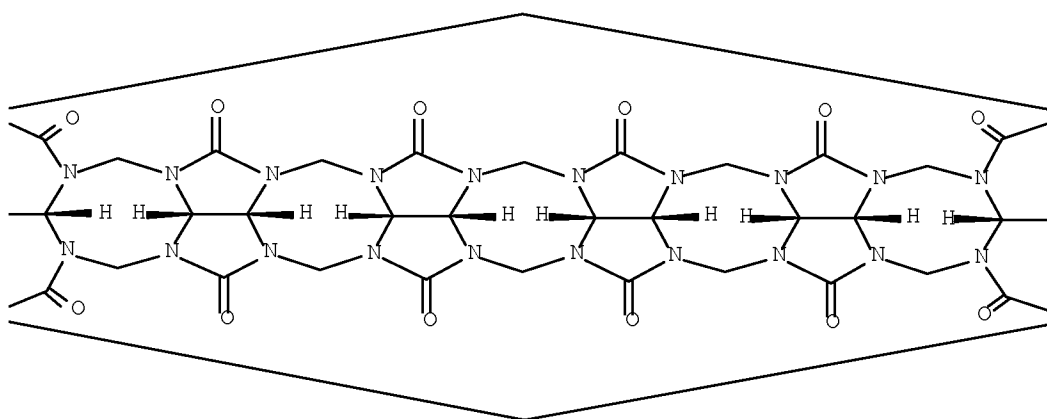
RN 283175-97-3 HCAPLUS  
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 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecane, dodecahydro-, stereoisomer (CA  
 INDEX NAME)

Relative stereochemistry.

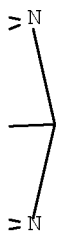
PAGE 1-A



PAGE 1-B



PAGE 1-C



RE.CNT 2

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 3 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:1330509 HCAPLUS Full-text

DN 144:40955

TI Substances which release terpenes and/or terpene alcohols, for inhibiting adhesion of human-pathogenic fungi

IN Bockmuehl, Dirk; Breves, Roland; Weide, Mirko; Boy, Julia

PA Henkel Kommanditgesellschaft auf Aktien, Germany

SO PCT Int. Appl., 131 pp.

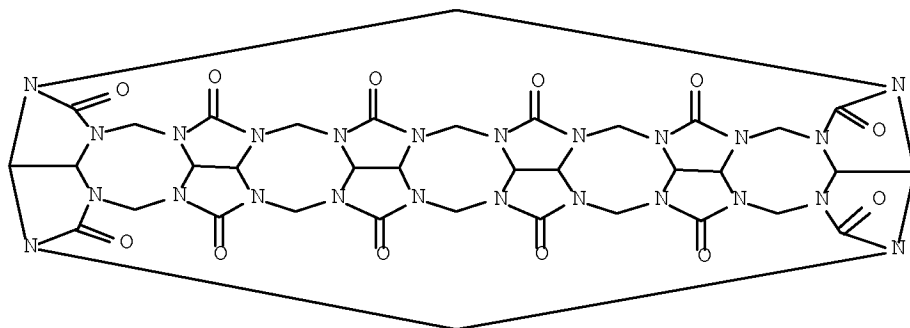
CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005120229	A1	20051222	WO 2005-EP5741	20050527 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 102004028018	A1	20060608	DE 2004-102004028018	20040608 <--
PRAI	DE 2004-102004028018	A	20040608	<--	
OS	MARPAT 144:40955				
AB	The invention relates to the use of substances, which release terpenes and/or terpene alcs., for reducing the adhesion of human-pathogenic microorganisms, such as Candida albicans, to biotic and abiotic surfaces, and to cosmetic or pharmaceutical prepn. containing these substances. Suitable terpenes and/or terpene alcs. are geraniol, farnesol, squalene, patchouli alc. and linalyl acetate. These terpenes and/or terpene alcs. are in the forms of esters with silicic acids or acrylic polymers or in the form of inclusion complexes.				
IT	80262-44-8D, Cucurbituril, inclusion complexes with terpenes and terpene alcs.				
	RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (substances which release terpenes and/or terpene alcs., for inhibiting adhesion of human-pathogenic fungi)				
RN	80262-44-8 HCAPLUS				
CN	1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano- 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H- 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24a, 25a, 26a-tetracosazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2'', 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene- 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)				



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 4 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:1259742 HCAPLUS Full-text  
 DN 144:39781  
 TI Disubstituted cucurbituril-bonded silica gel  
 IN Kim, Kimoon; Oh, Dong-Hyun; Erumaipatty Rajagounder, Nagarajan; Raju, Nandha Kumar; Choi, Ju-Young; Ko, Young-Ho  
 PA Postech Academy-Industry Foundation, S. Korea  
 SO PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

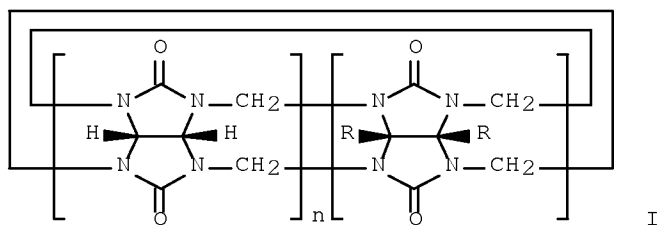
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	KR 2005101914	A	20051025	KR 2004-27153	20040420 <--
	US 20080093301	A1	20080424	US 2006-587047	20061020 <--
PRAI	KR 2004-27153	A	20040420	<--	
	WO 2005-KR1127	W	20050420		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 144:39781

GI





AB A disubstituted cucurbituril-bonded silica gel and its use are provided. The disubstituted cucurbituril-bonded silica gel is useful for removal of air pollutants or water contaminants, and separation and purification of biol., organic, inorg., or ionic substances.

IT 870671-46-8P 870684-87-0P

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)

(disubstituted cucurbituril-bonded silica gel for removal of air pollutants or water contaminants, and separation and purification of biol., organic, inorg., or ionic substances)

RN 870671-46-8 HCAPLUS

CN 1H,4H,12H,15H-2,14:3,13-Dimethano-

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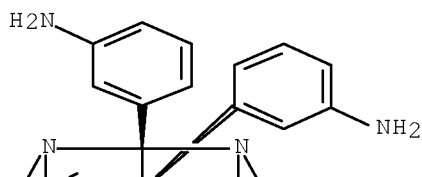
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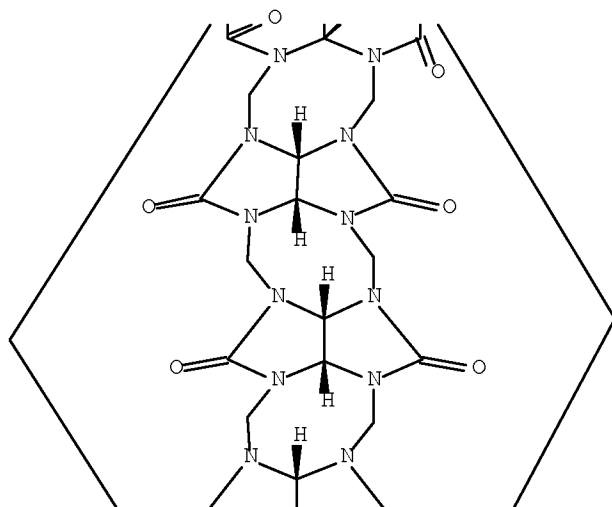
1,4,6,8,10,12,15,17,19,21-decone, 2a,22b-bis(3-aminophenyl)decahydro-, stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

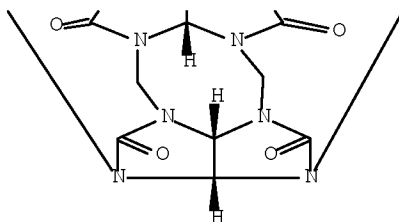
PAGE 1-A



PAGE 2-A

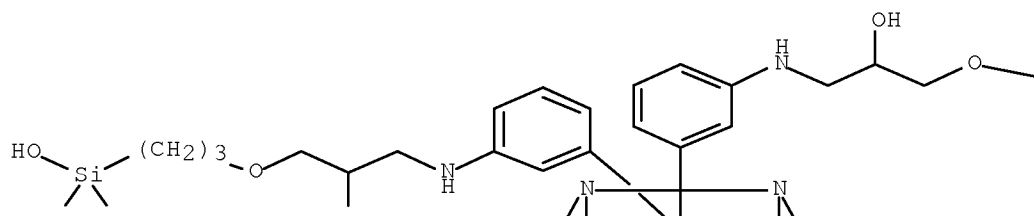


PAGE 3-A

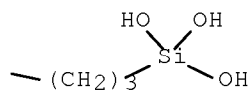


RN 870684-87-0 HCAPLUS  
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 2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-  
 eicosaazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pe  
 ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
 1,4,6,8,10,12,15,17,19,21-decone, decahydro-2a,22b-bis[3-[[2-hydroxy-3-[3-  
 (trihydroxysilyl)propoxy]propyl]amino]phenyl]-, stereoisomer (9CI) (CA  
 INDEX NAME)

PAGE 1-A



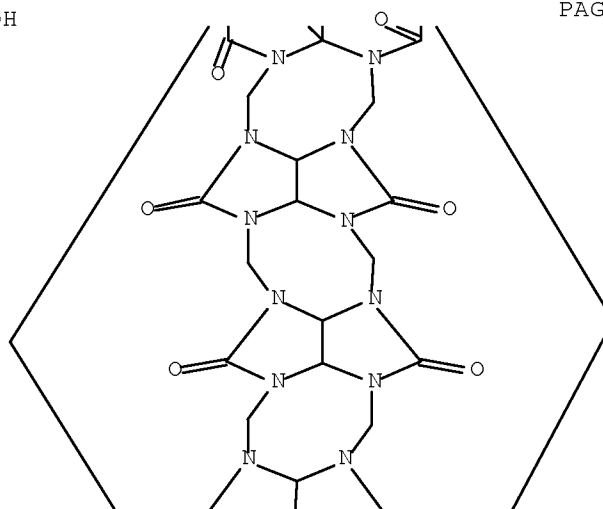
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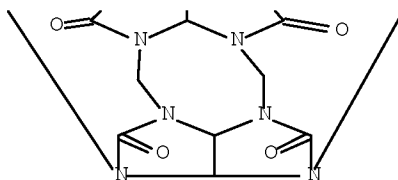
HO OH

OH

PAGE 2-A



PAGE 3-A



IT 870684-88-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(disubstituted cucurbituril-bonded silica gel for removal of air pollutants or water contaminants, and separation and purification of biol., organic, inorg., or ionic substances)

RN 870684-88-1 HCAPLUS

CN 1H,4H,12H,15H-2,14:3,13-Dimethano-

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2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-

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ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-

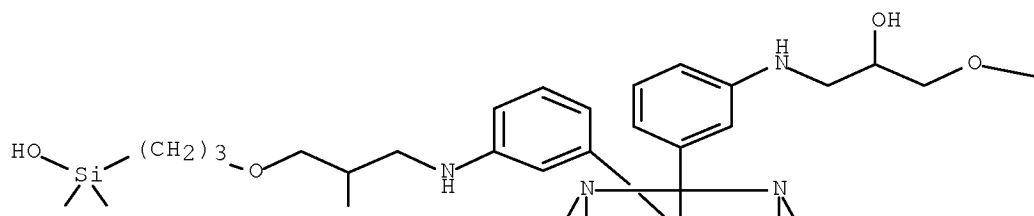
1,4,6,8,10,12,15,17,19,21-decone, decahydro-2a,22b-bis[3-[[2-hydroxy-3-[3-(trihydroxysilyl)propoxy]propyl]amino]phenyl]-, stereoisomer, polymer with silica (9CI) (CA INDEX NAME)

CM 1

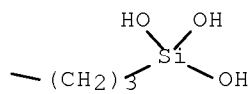
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PAGE 1-A



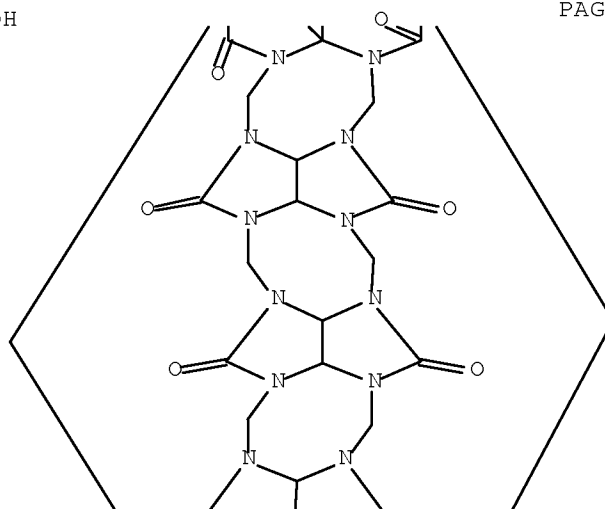
PAGE 1-B



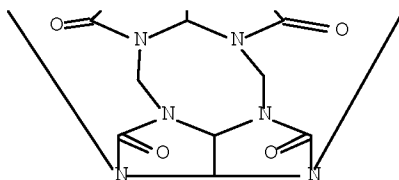
HO OH

OH

PAGE 2-A



PAGE 3-A



CM 2

CRN 7631-86-9

CMF 02 Si

O=Si=O

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 5 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:1259724 HCAPLUS [Full-text](#)

DN 144:11604

TI Preparation of liposome comprising a cucurbituril derivative

IN Kim, Kimoon; Lee, Hyung-Kun; Park, Kyung-Min; Jeon, Young-Jin; Oh, Dong-Hyun; Kim, Dongwoo

PA Postech Academy-Industry Foundation, S. Korea

SO PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005112890	A1	20051201	WO 2005-KR1110	20050419 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
KR 2005102295	A	20051026	KR 2004-27577	20040421 <--
US 20070212404	A1	20070913	US 2006-587098	20061020 <--
PRAI KR 2004-27577	A	20040421 <--		
WO 2005-KR1110	W	20050419		

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 144:11604

AB A liposome formed by self-assembling a cucurbituril derivative and a method of preparing the liposome are provided. Liposomes further include a targeting moiety exposed to the outside of the liposome. Organic compds., such as hydrocortisone, prednisolone, spironolactone, testosterone, megesterol acetate, danazole, progesterone, etc., a protein, or a gene are encapsulated as a guest mol. in the liposome. For example, 2.3 mg of [3-[2-[2-(2-methoxyethoxy)ethoxy]ethylsulfanyl]propyloxy]12 cucurbituril was dissolved in 1 mL of Me alc. and the resultant solution was completely dried. About 6 mL of an aqueous solution containing 1 mg of hydrocortisone was added to the dried product, the temperature of a water bath was controlled to 40° and then the product was dispersed in the aqueous solution for 30 min by sonication. The formation of liposomes having sizes of several tens to 1000 nm was observed using a TEM.

IT 80262-44-8D, Cucurbituril, derivs.

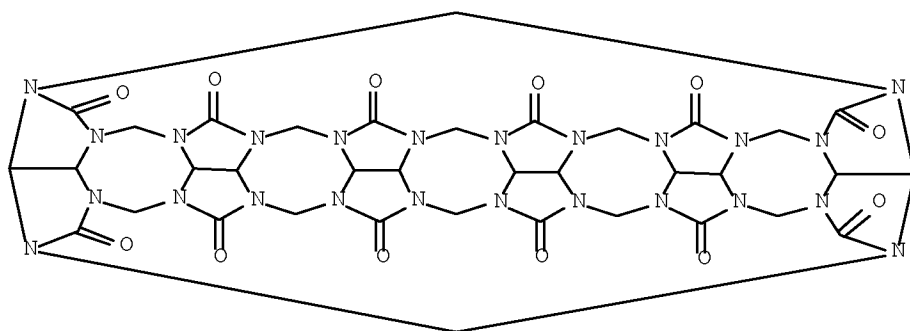
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of liposomes by self-assembly of cucurbituril derivative)

RN 80262-44-8 HCAPLUS

CN 1H,4H,14H,17H-2,16:3,15-Dimethano-

5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro- (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

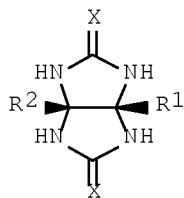
L45 ANSWER 6 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2005:1170684 HCAPLUS Full-text  
DN 143:440450  
TI Processes of preparing glycolurils and cucurbiturils using microwave irradiation  
IN Kim, Kimoon; Samal, S.; Kumar, R. N.; Selvapalam, N.; Oh, Dong-Hyun  
PA Postech Academy-Industry Foundation, S. Korea  
SO PCT Int. Appl., 24 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	AU 2005235926	B2	20090129		
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	JP 2007532694	T	20071115	JP 2007-509402	20050426 <--
	IN 2006DN05897	A	20070713	IN 2006-DN5897	20061010 <--
	US 20070232809	A1	20071004	US 2006-568255	20061024 <--
PRAI	KR 2004-28626	A	20040426 <--		
	WO 2005-KR1195	W	20050426		

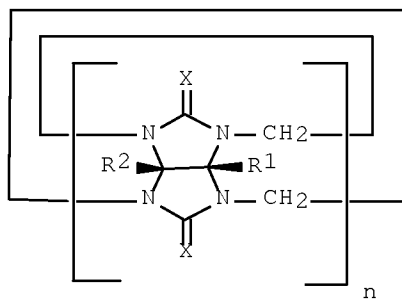
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 143:440450; MARPAT 143:440450

GI



I



II



AB Processes of preparing glycolurils, and for preparing cucurbiturils from the glycolurils or other cucurbiturils, both using microwave irradiation, are disclosed. The glycolurils are described by formula I, and the cucurbiturils by formula II [wherein: X = O, S, NH; R1, R2 = (independently) H, (un)substituted alk(en/yn)yl, alkylcarboxyl, hydroxyalkyl, alkoxy, nitroalkyl, (di)(alkyl)amino, (hetero)cycloalkyl, (hetero)aryl; n = 4-20]. Specifically, microwave irradiation allows a variety of condensation and cyclization reactions used for the preparation of industrially widely applied glycoluril and cucurbituril derivs. to be carried out efficiently in a short time. Applicable reactions include: (1) condensation and cyclization of 1,2-dicarbonyl compds. with ureas to give glycolurils, (2) condensation and cyclization reactions between glycolurils and paraformaldehyde or formaldehyde solution to give cucurbiturils, (3) condensation and cyclization of disubstituted glycolurils with unsubstituted glycolurils to give disubstituted glycolurils, and (4) oxidation reactions of cucurbiturils for preparation of hydroxycucurbiturils. The condensing glycolurils can be cyclic-bridged glycolurils, such as I [R1R2 = (CH2)4]. For instance, simple cyclocondensation of urea with glyoxal in the presence of concentrated HCl was carried out in a reactor in an 800-W microwave for 15 s to give the solid parent glycoluril I [X = O, R1 = R2 = H] (III) in 85% yield. Further cyclization of III with paraformaldehyde in 9M H2SO4 with an irradiation time of 45 s, and recrystn. of the products, gave a series of 4 cucurbiturils II [X = O, R1 = R2 = H, (IV): n = 5, 6, 7, 8] with yields of 15%, 45%, 20%, and 15%, resp. Similarly, mixed cyclization of an excess of the unsubstituted glycoluril III with the disubstituted glycoluril I [X = O, R1 = R2 = m-nitrophenyl] and paraformaldehyde in 12M H2SO4 (5 min, 800 W) gave the disubstituted hexameric cucurbituril II [X = O, n = 6, R1 = R2 = H for 5 units, R1 = R2 = m-nitrophenyl for 1 unit] in 17% yield. The oxidation of unsubstituted hexameric cucurbituril IV [n = 6] with K2S2O8 in H2O (5 min, 800 W) gave II [X = O, n = 6, R1 = R2 = OH] in 45% yield. Cyclocondensation of dimethylglycoluril I [X = O, R1 = R2 = Me] with paraformaldehyde in 9M H2SO4 (50 s, 800 W) gave 16% decamethylcucurbituril II [X = O, n = 5, R1 = R2 = Me]. Finally, cyclocondensation of I [X = O, R1R2 = (CH2)4] with aqueous formaldehyde in the presence of HCl and H2SO4 (50 s, 800 W) gave cucurbiturils II [X = O, n = 5 and 6, R1R2 = (CH2)4] in yields of 40% and 10%, resp.

IT 283175-97-3P

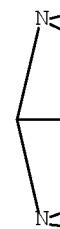
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(product and reactant; prepns. of glycolurils and cucurbiturils using microwave irradiation)

RN 283175-97-3 HCAPLUS

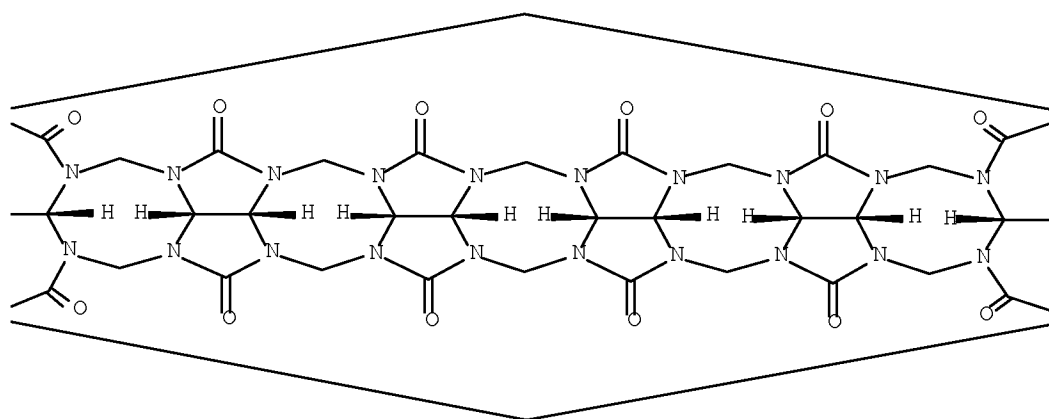
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2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
,3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer (CA  
INDEX NAME)

Relative stereochemistry.

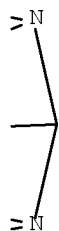
PAGE 1-A



PAGE 1-B



PAGE 1-C



IT 143902-45-8P 259886-49-2P 259886-50-5P  
259886-51-6P, Cucurbit[8]uril 558445-69-5P  
864846-32-2P

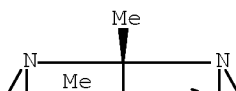
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP  
(Preparation)  
(product; preps. of glycolurils and cucurbiturils using microwave  
irradiation)

RN 143902-45-8 HCAPLUS

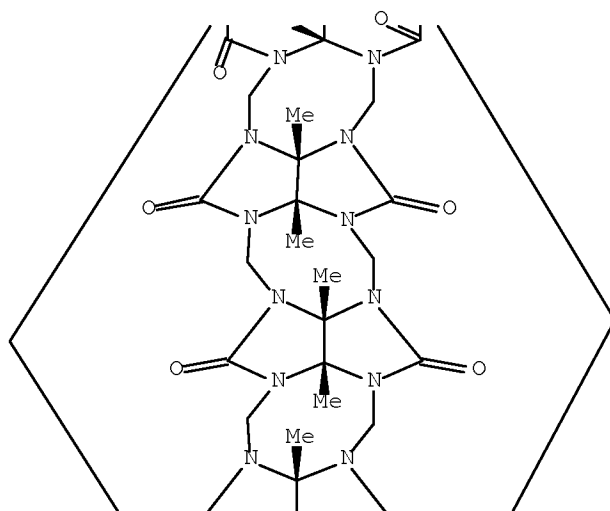
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2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-  
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ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
1,4,6,8,10,12,15,17,19,21-decone, decahydro-  
2a,13a,15b,16b,17b,18b,19b,20b,21b,22b-decamethyl-, stereoisomer (CA  
INDEX NAME)

Relative stereochemistry.

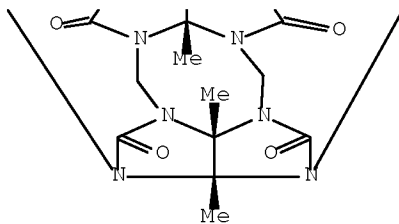
PAGE 1-A



PAGE 2-A



PAGE 3-A



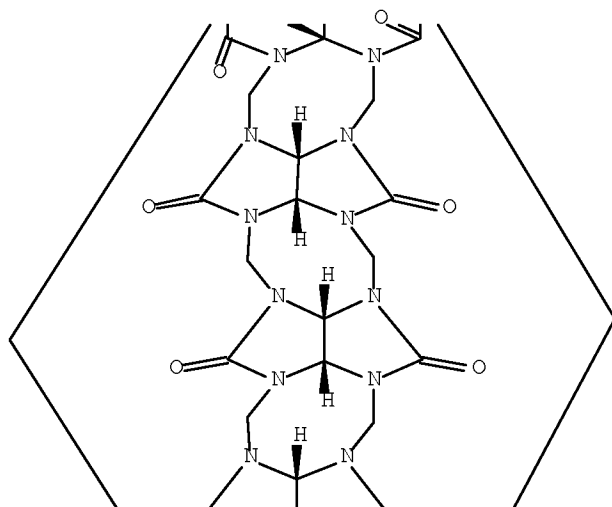
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 1, 4, 6, 8, 10, 12, 15, 17, 19, 21-decone, decahydro-, stereoisomer (CA INDEX  
 NAME)

Relative stereochemistry.

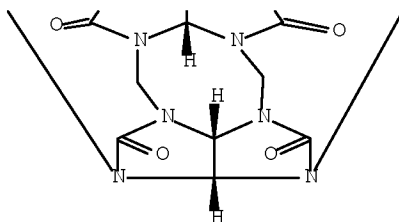
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PAGE 2-A



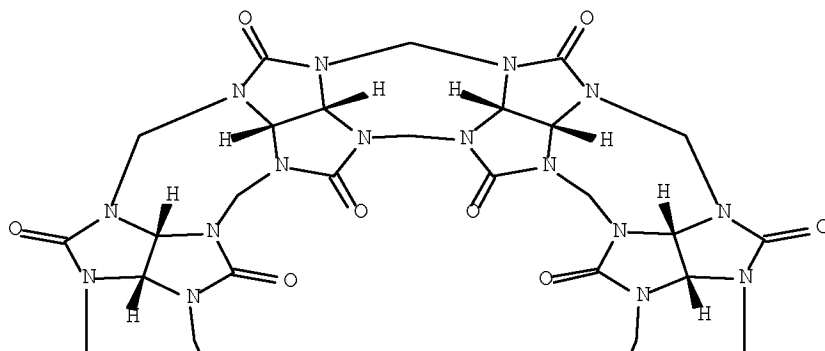
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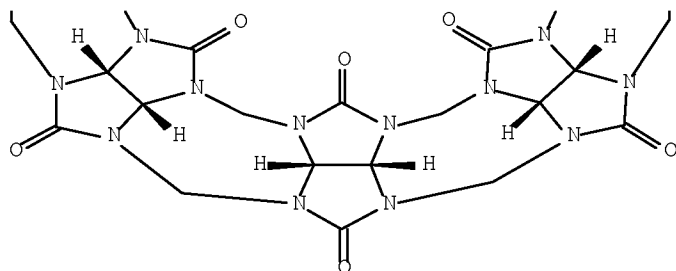
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 a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
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 1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-,  
 stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



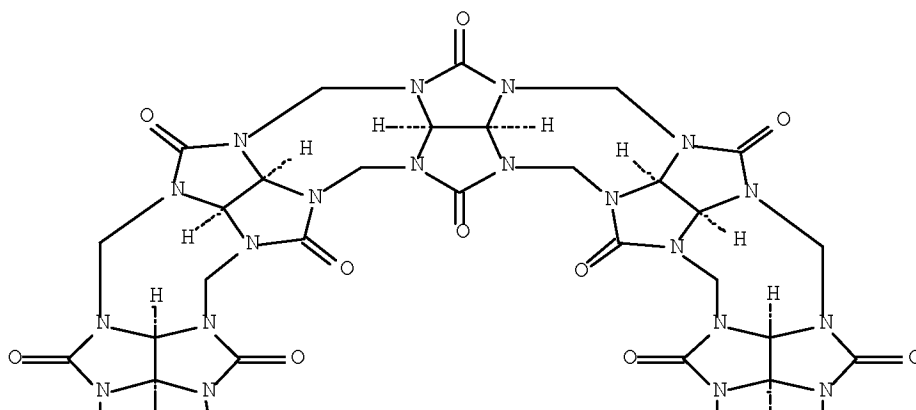
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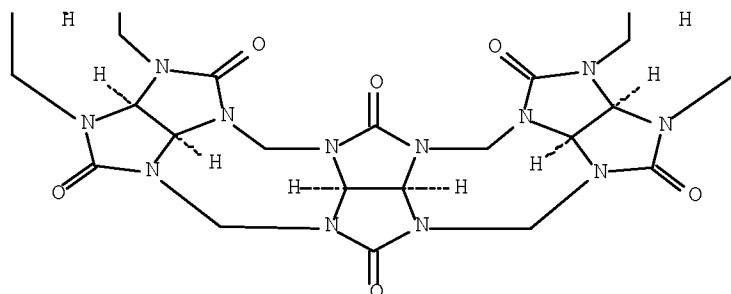
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 1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone, hexadecahydro-,  
 stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



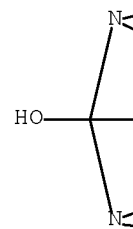
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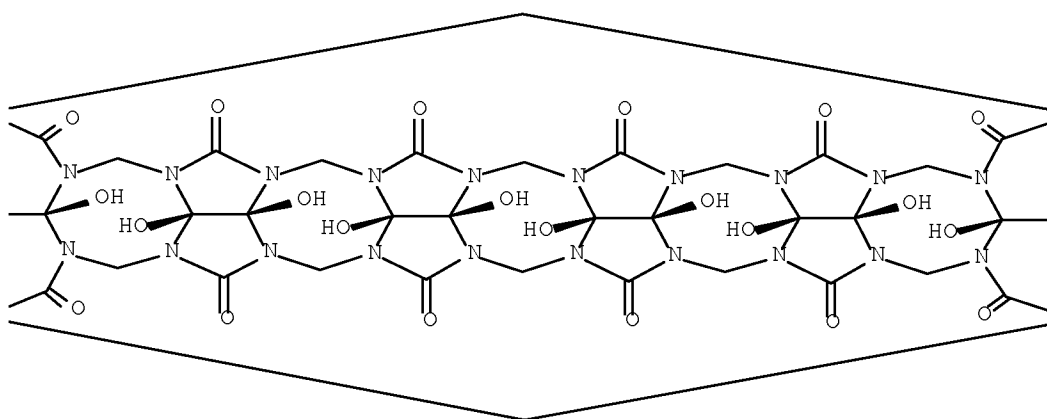
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 stereoisomer (CA INDEX NAME)

Relative stereochemistry.

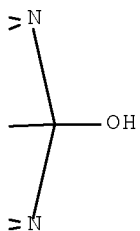
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PAGE 1-B



PAGE 1-C



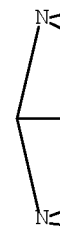
RN 864846-32-2 HCAPLUS  
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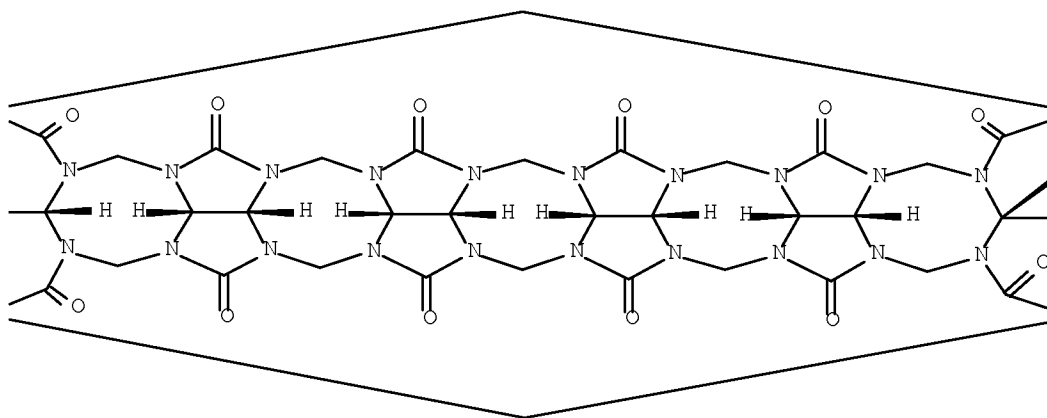
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Relative stereochemistry.

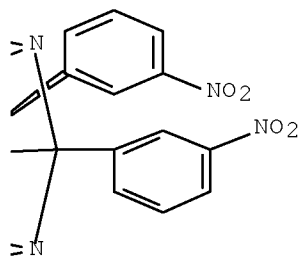
PAGE 1-A



PAGE 1-B



PAGE 1-C



IT 868751-93-3 868751-94-4

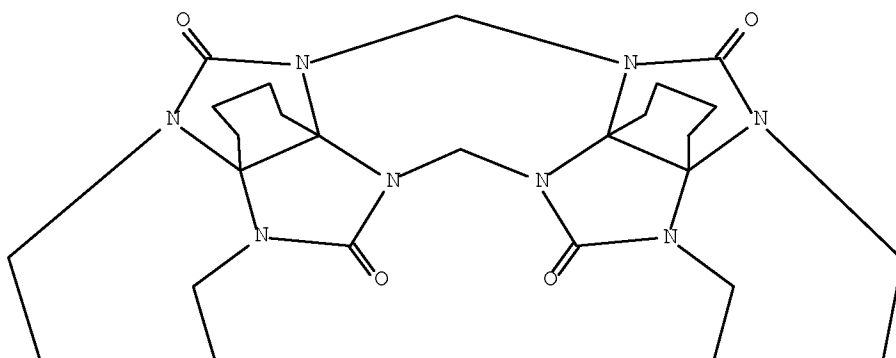
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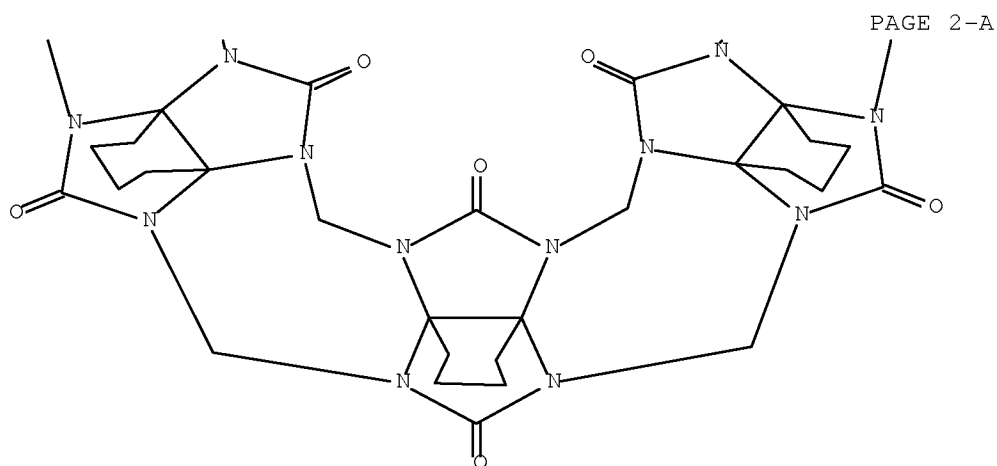
(product; preps. of glycolurils and cucurbiturils using microwave irradiation)

RN 868751-93-3 HCAPLUS

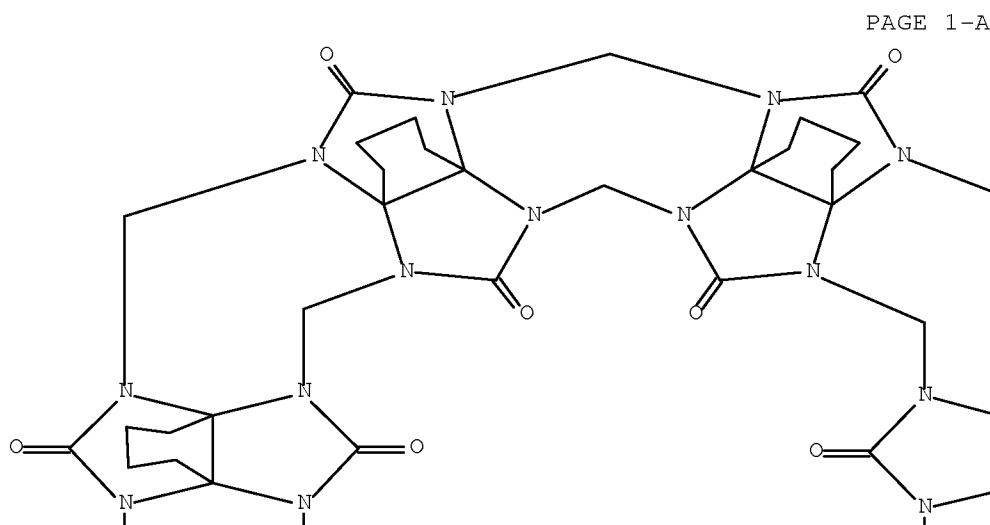
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PAGE 1-A

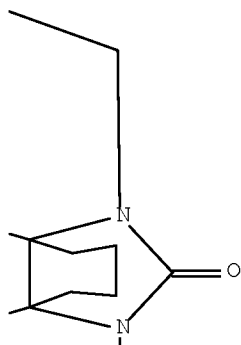




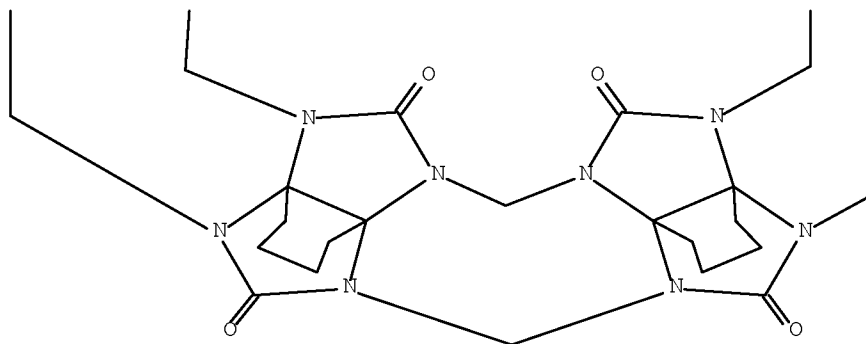
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 7, 2a, 29a, 25-(methanonitrilomethanonitrilomethano)-  
 1H, 10H, 12H, 14H, 16H, 18H, 20H, 22H, 31H, 39H, 46H, 53H-  
 bisbenzimidazo[1'', 7''':a:5'', 6''] [1, 3, 5, 7]tetrazocino[1'', 2'':3', 3'a]benz  
 imidazo[7'a, 1':6, 7] [1, 3, 5, 7]tetrazocino[2, 1-i:2', 1'-  
 i'] [1, 3, 5, 7]tetrazocino[1, 2-c:7, 6-c']bisbenzimidazole-  
 1, 10, 14, 18, 22, 31, 63, 64, 65, 66, 68, 72-dodecone, tetracosahydro-, stereoisomer  
 (9CI) (CA INDEX NAME)



PAGE 1-B



PAGE 2-A



PAGE 2-B

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 7 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:1170646 HCAPLUS Full-text

DN 143:441499

TI Ultrathin polymer film using cucurbituril derivative and method of forming the same

IN Kim, Ki-Moon; Jeon, Woo-Sung; Kim, Dong-Woo; Oh, Dong-Hyun; Jon, Sang-Yong  
 PA Postech Academy-Industry Foundation, S. Korea  
 SO PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2

DT Patent  
 LA English

FAN.CNT 1

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PI	WO 2005103125	A1	20051103	WO 2005-KR1141	20050421 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	KR 2005102294	A	20051026	KR 2004-27576	20040421 <--
	US 20070224403	A1	20070927	US 2006-587046	20061020 <--
PRAI	KR 2004-27576	A	20040421	<--	
	WO 2005-KR1141	W	20050421		

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Provided are an ultrathin polymer film formed by homopolymn. or copolymn. of a cucurbituril derivative and a method of forming the same. The ultrathin polymer film has a thickness of 10 nm or less, and can retain its film shape even after being separated from a substrate.

IT 832153-10-3P 868594-60-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(ultrathin polymer film using cucurbituril derivative and method of forming the same)

RN 832153-10-3 HCAPLUS

CN 2-Propenoic acid, polymer with stereoisomer of  
 dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-propenyloxy)-1H,4H,14H,17H-2,16:3,15-dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone (9CI) (CA INDEX NAME)

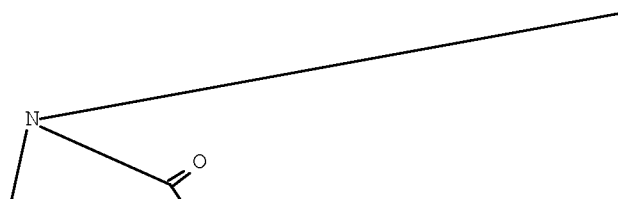
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CRN 558445-90-2

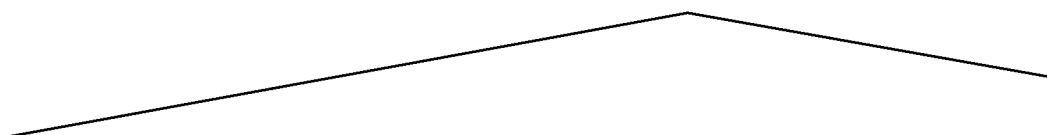
CMF C72 H84 N24 O24

Relative stereochemistry.

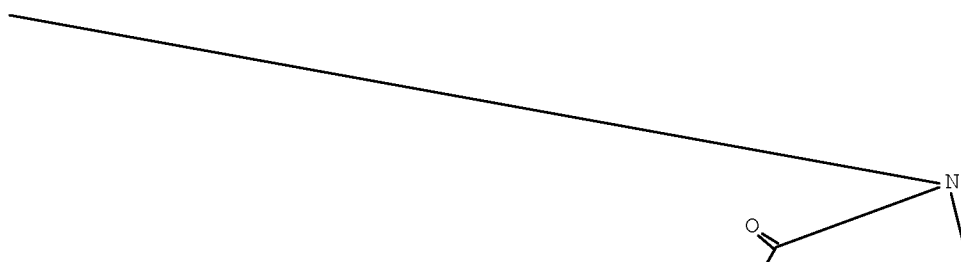
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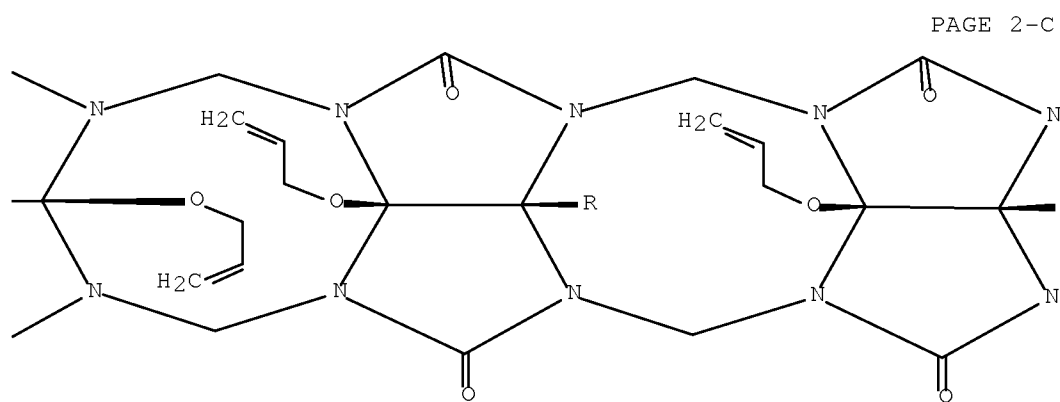
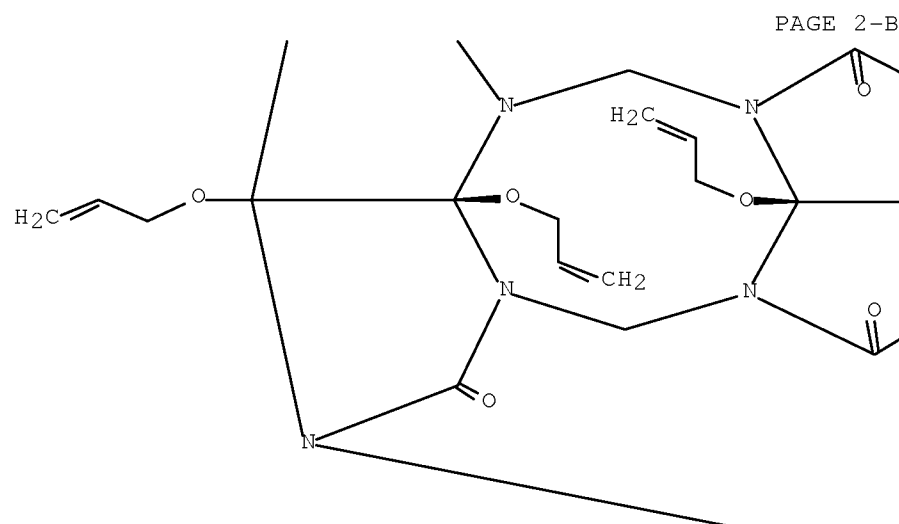


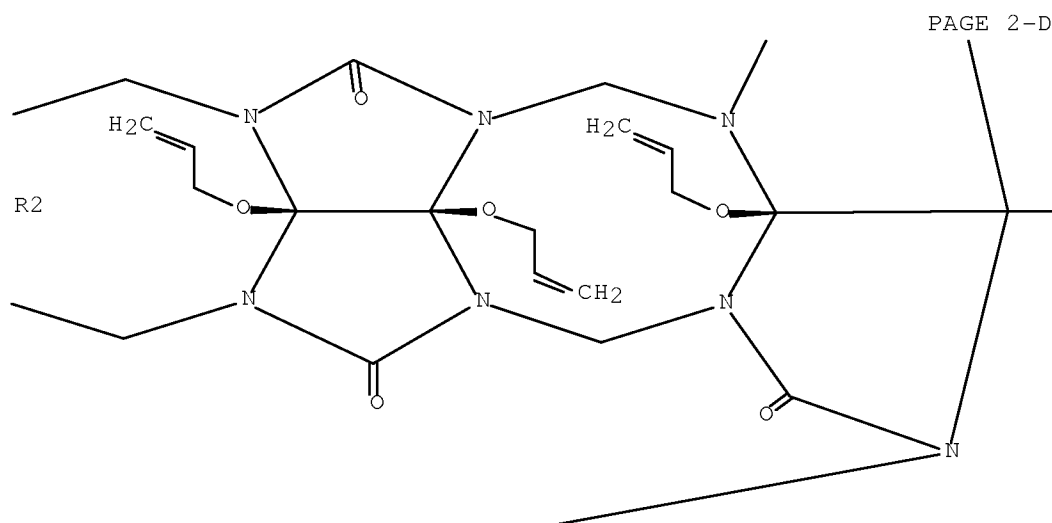
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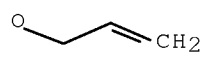
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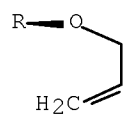




PAGE 2-E



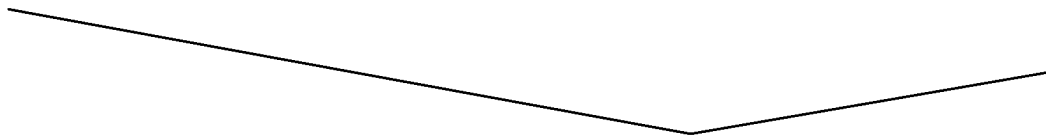
PAGE 3-A



PAGE 3-B



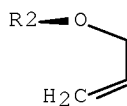
PAGE 3-C



PAGE 3-D

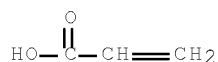


PAGE 4-A



CM 2

CRN 79-10-7  
CMF C3 H4 O2



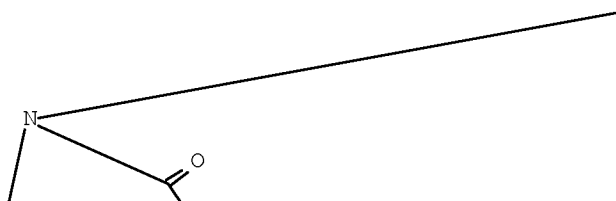
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2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''' : 5'', 6'', 7'']cycloocta[1'', 2''  
, 3'' : 3', 4']pentaleno[1', 6' : 5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,  
dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecakis (2-  
propen-1-yloxy)-, stereoisomer, homopolymer (CA INDEX NAME)

CM 1

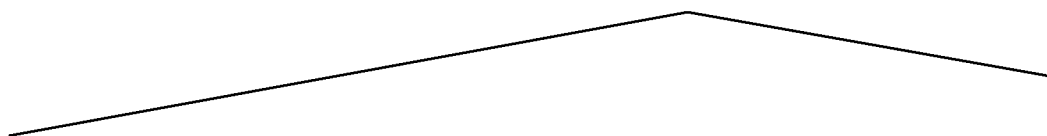
CRN 558445-90-2  
CMF C72 H84 N24 O24

Relative stereochemistry.

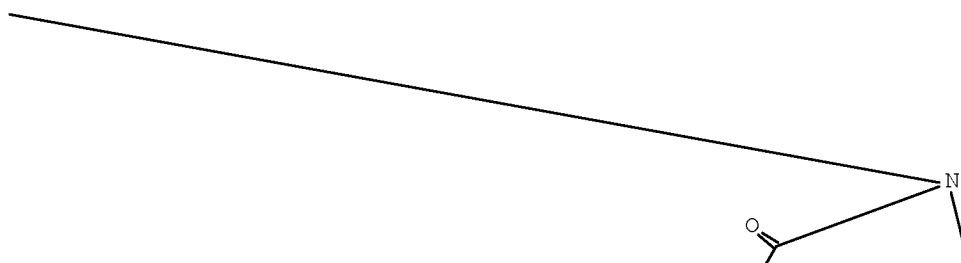
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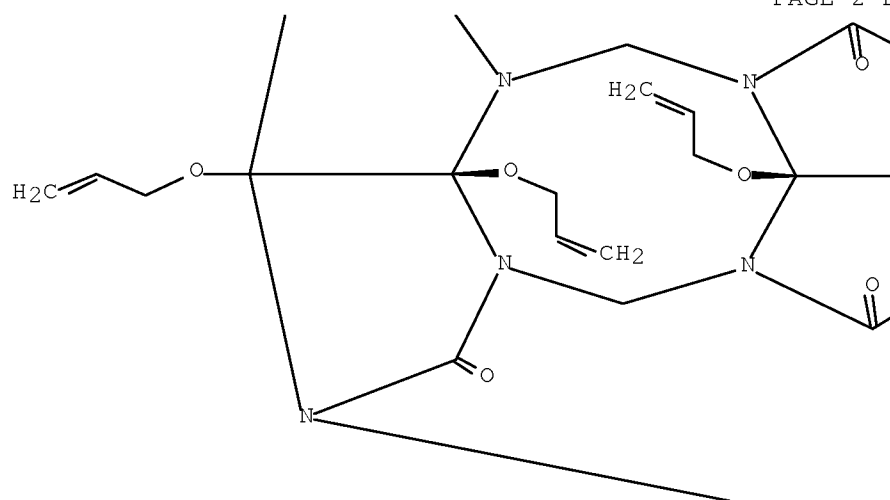
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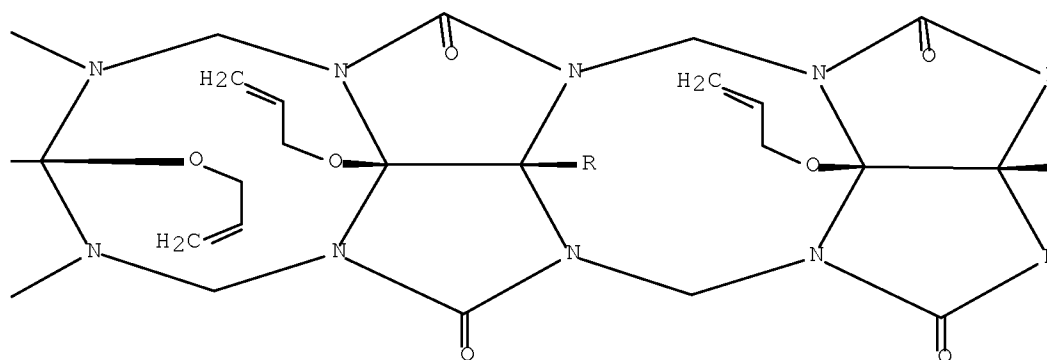
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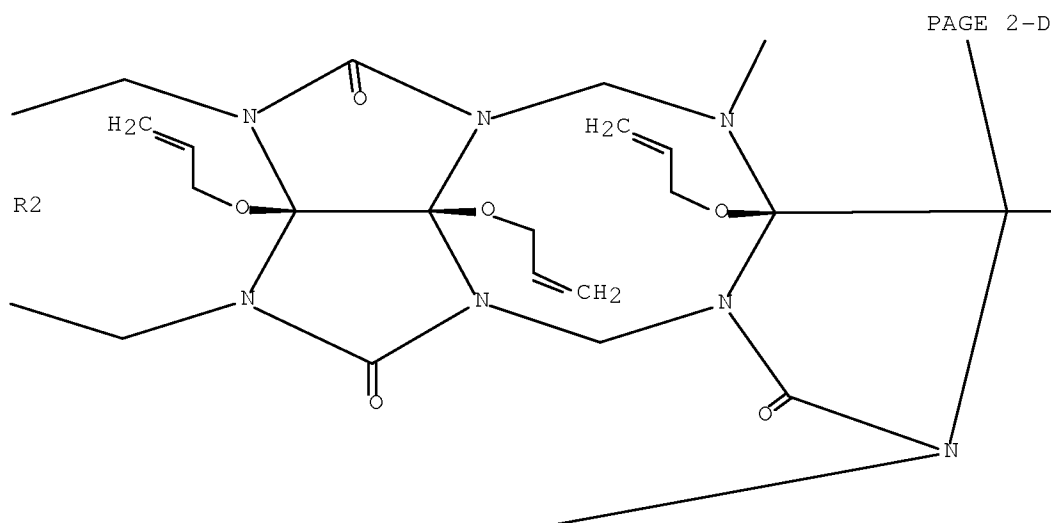


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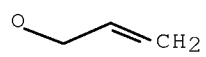


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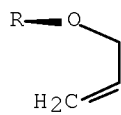




PAGE 2-E



PAGE 3-A

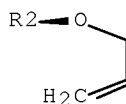


PAGE 3-B

PAGE 3-C

PAGE 3-D

PAGE 4-A



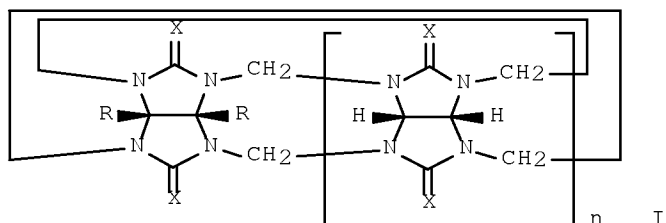
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 8 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2005:1021754 HCAPLUS Full-text  
DN 143:306316  
TI Preparation of disubstituted cucurbiturils  
IN Kim, Kimoon; Lee, Jae-Wook; Oh, Dong-Hyun; Ju, Jeongmin  
PA Postech Foundation, S. Korea  
SO PCT Int. Appl., 19 pp.  
CODEN: PIXXD2  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005087777	A1	20050922	WO 2004-KR536	20040313 <--
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	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 20080139821	A1	20080612	US 2006-598861	20060913 <--

PRAI WO 2004-KR536 W 20040313 <--  
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
 OS CASREACT 143:306316; MARPAT 143:306316  
 GI



AB Disubstituted cucurbiturils of formula I [X = O, S, NH; R = alkenyl, carboxyalkyl, hydroxyalkyl, (substituted) aryl, etc.] are prepared. The disubstituted cucurbituril has two end functional groups that can covalently bind with a solid substrate or a biochem. useful compound to obtain a cucurbituril-bonded substrate, which enables application of the disubstituted cucurbituril as column packing materials for chromatog., additives to gas separation membranes, catalysts for various chemical reactions, chemical sensors, biol. sensors or as drug carriers (no data). Thus, di-m-nitrobenzil and urea were mixed with HCl to give di-m-nitrophenylglycoluril, which was reacted with glycoluril and formaldehyde, and the product reduced to give di-m-aminophenylcucurbit[6]uril.

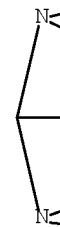
IT 864846-35-5P 864846-36-6P 864846-37-7P  
 RL: BUU (Biological use, unclassified); CAT (Catalyst use); MOA (Modifier or additive use); NUU (Other use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of disubstituted cucurbiturils)

RN 864846-35-5 HCAPLUS

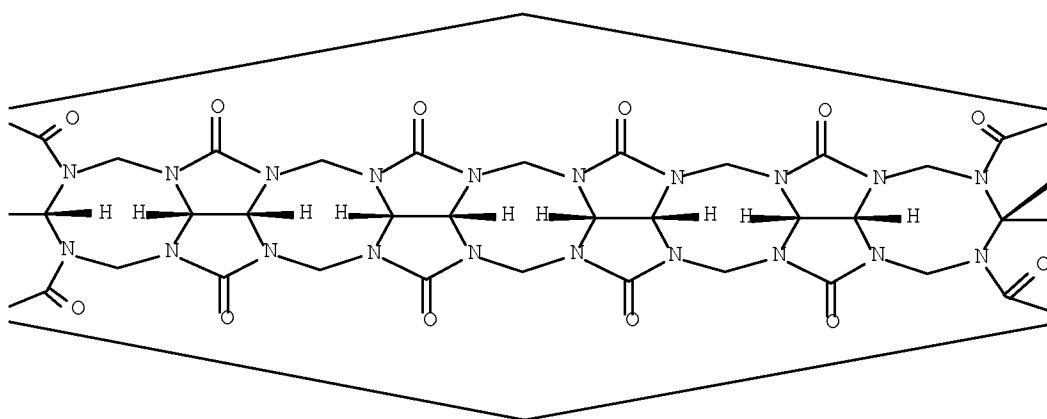
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 a, 25a, 26a-tetracosazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, 2a, 26b-bis(3-aminophenyl)-,  
 stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

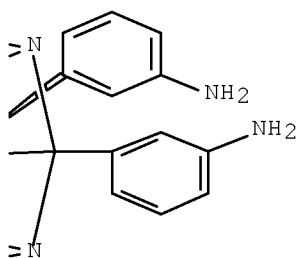
PAGE 1-A



PAGE 1-B



PAGE 1-C

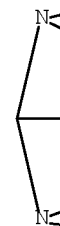


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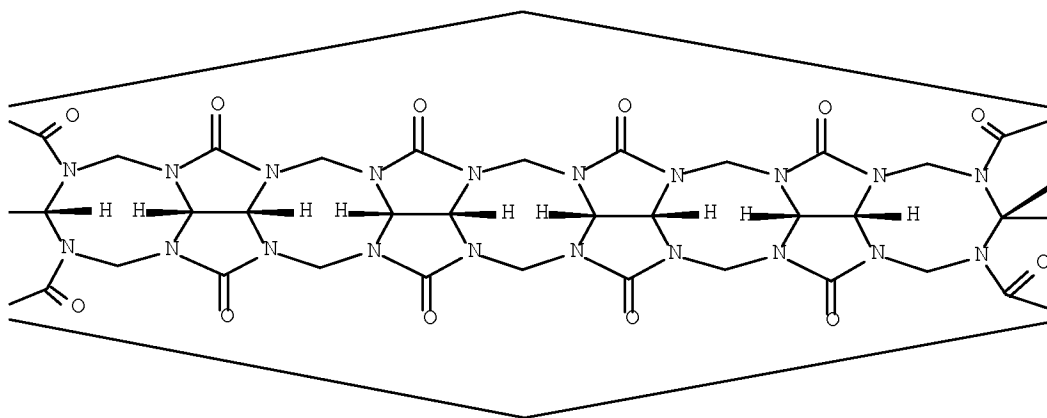
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Relative stereochemistry.

PAGE 1-A

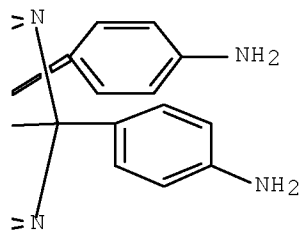


PAGE 1-B





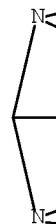
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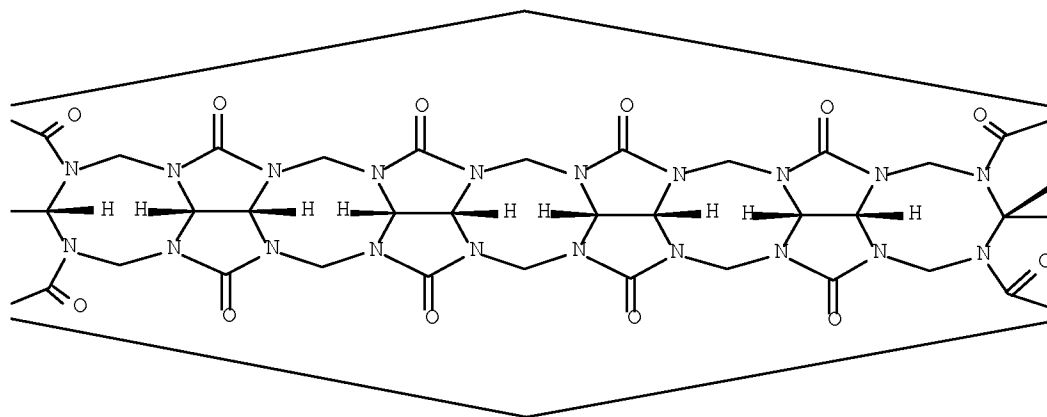
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 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, 2a,26b-bis(4-hydroxyphenyl)-,  
 stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

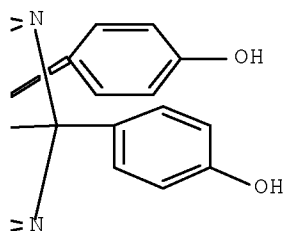
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PAGE 1-B



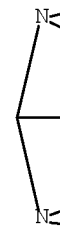
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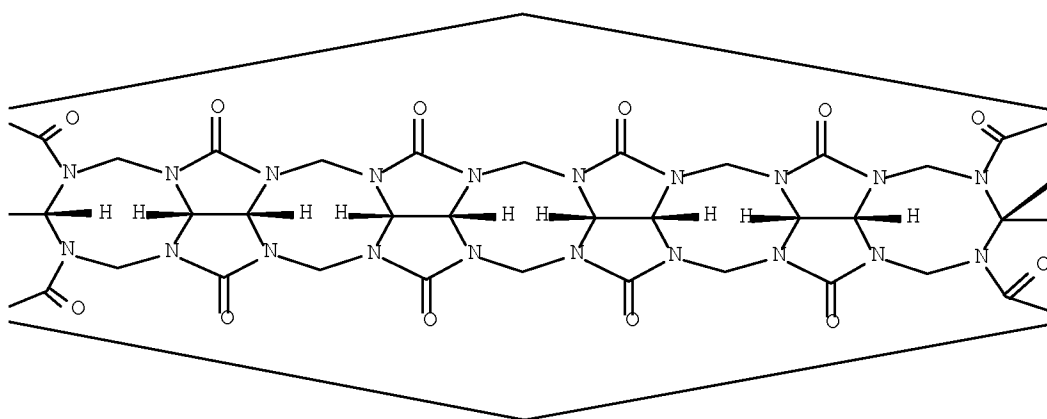
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 (Reactant or reagent)  
 (preparation of disubstituted cucurbiturils)  
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 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, 2a, 26b-bis(3-nitrophenyl)-,  
 stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

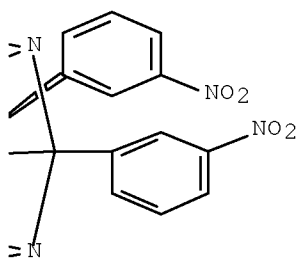
PAGE 1-A



PAGE 1-B



PAGE 1-C

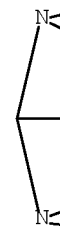


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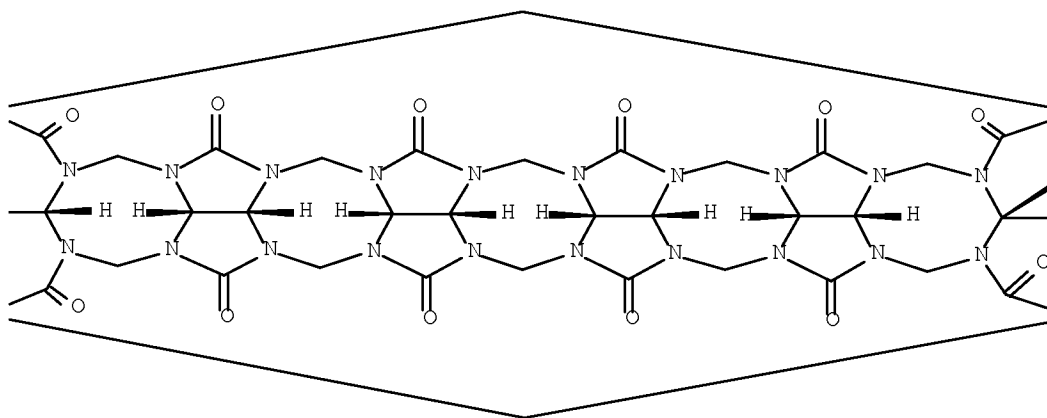
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Relative stereochemistry.

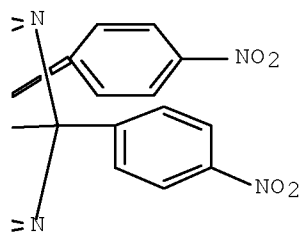
PAGE 1-A



PAGE 1-B



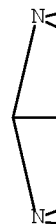
PAGE 1-C



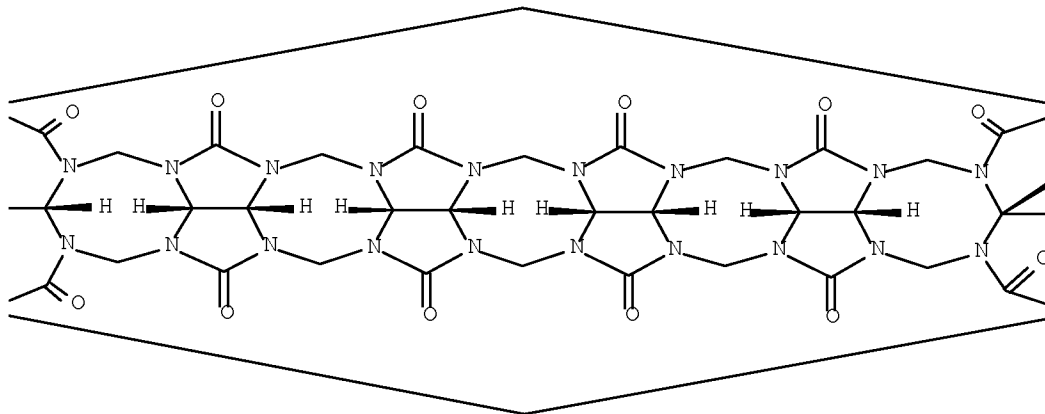
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 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, 2a,26b-bis(4-methoxyphenyl)-,  
 stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

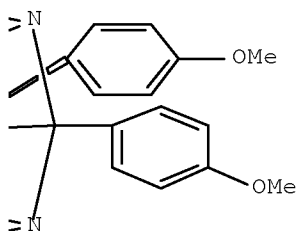
PAGE 1-A



PAGE 1-B



PAGE 1-C



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 9 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2005:325695 HCAPLUS Full-text  
DN 142:392447  
TI Preparation of cucurbit[n]uril compounds and analogs, and methods of  
making and using the same  
IN Isaacs, Lyle; Lagona, Jason Alan  
PA University of Maryland, USA  
SO U.S. Pat. Appl. Publ., 27 pp.  
CODEN: USXXCO  
DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050080068	A1	20050414	US 2004-933538	20040903 <--
	US 7335768	B2	20080226		
PRAI	US 2003-500115P	P	20030904	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
OS CASREACT 142:392447

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB A method for forming oligomers, i.e. cucurbit[n]uril compds. containing phthalhydrazide units in a macrocyclic wall thereof, comprises the step of reacting one or more phthalhydrazides or one or more compds. functionally equivalent there to with one or more glycoluril cyclic ethers. This method of preparing cucurbit-type compds. using bis(phthalhydrazides) as glycoluril surrogates controls the size, shape and pattern of functional groups in cucurbit[n]uril (i.e. CB[n]) forming reactions. The compds. are used advantageously to form host-guest complexes or cucurbit[6]uril-trirotaxane compound. Controlled oligomerization of compound (I) (R = CO<sub>2</sub>Et) (10.00 g) with 5.25 g paraformaldehyde in the presence of 33.23 g p-MeC<sub>6</sub>H<sub>4</sub>SO<sub>3</sub>H in ClCH<sub>2</sub>CH<sub>2</sub>Cl at reflux for 2 h yielded a mixture of (II), (III), (IV), (V), (VI) and higher oligomers. Through a combination of selective dissoln. and chromatog. sepns., II 3.58, III 9.579, isomer of III 0.394, IV 0.026, V 0.164, and its isomer VI 0.120 g were obtained.

IT 618906-31-3P

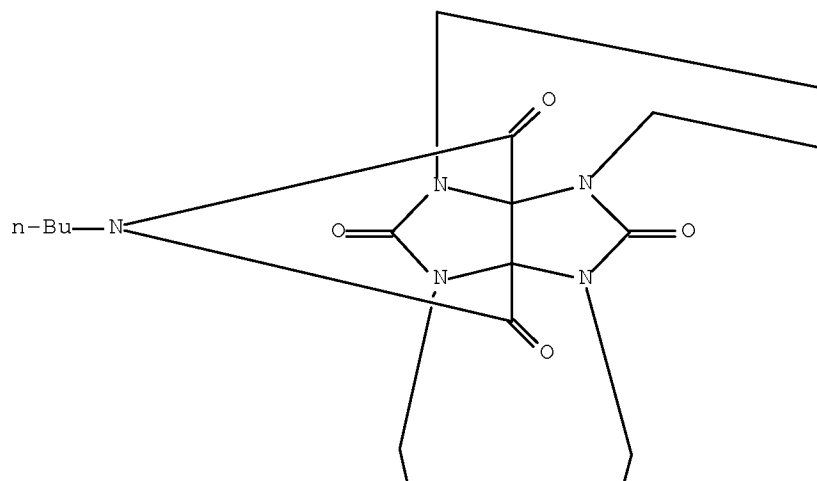
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of cucurbit[n]uril compds. and analogs as host compds. for host-guest complexes or cucurbit[6]uril-trirotaxane compound)

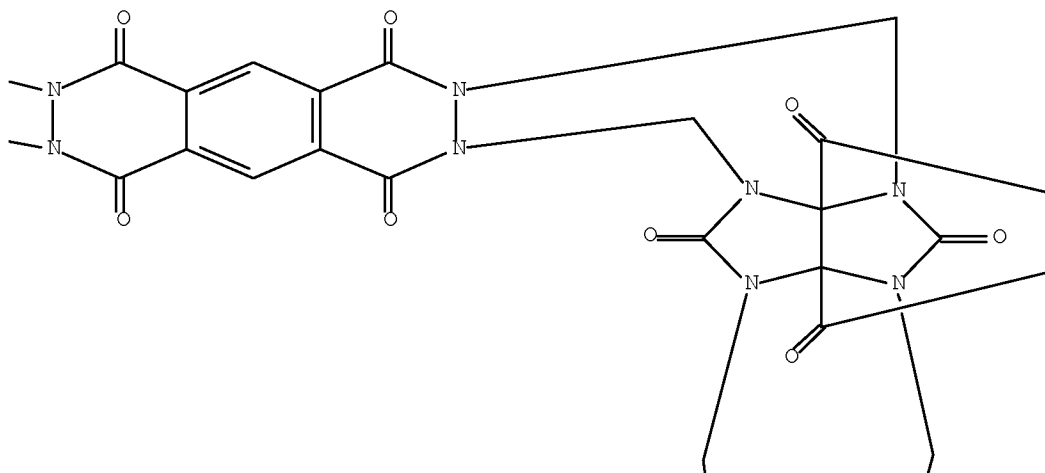
RN 618906-31-3 HCAPLUS

CN 30H, 33H, 35H, 41H, 47H, 53H, 59H, 65H-36, 40:42, 46:54, 58:60, 64-Tetramethano-2, 32:3, 31-dimetheno-6H, 8H, 10H, 12H, 14H, 16H, 20H, 22H, 24H, 26H, 28H, 37H, 40H, 43H, 49H, 55H, 58H, 61H-bispyrrolo[3''''', 4''''':4', 5']pyrrolo[3''''', 4''''':4''', 5''']pyridazino[1''''', 2''''':1''''', 2'''''] [1, 2, 4, 6]tetrazepino[4''''', 5''''':3''''', 4''''']imidazo[5''''', 1''''':6''', 7'''] [1, 3, 5, 7]tetrazocino[1'', 2'':3', 4']imidazo[1', 5':4, 5] [1, 2, 4, 6]tetrazepino[1, 2-a:1', 2'-a']benzo[1, 2-d:5, 4-d']dipyridazinetetracosone, 38, 44, 56, 62-tetrabutyl-, stereoisomer (9CI) (CA INDEX NAME)

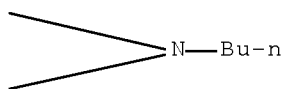
PAGE 1-A



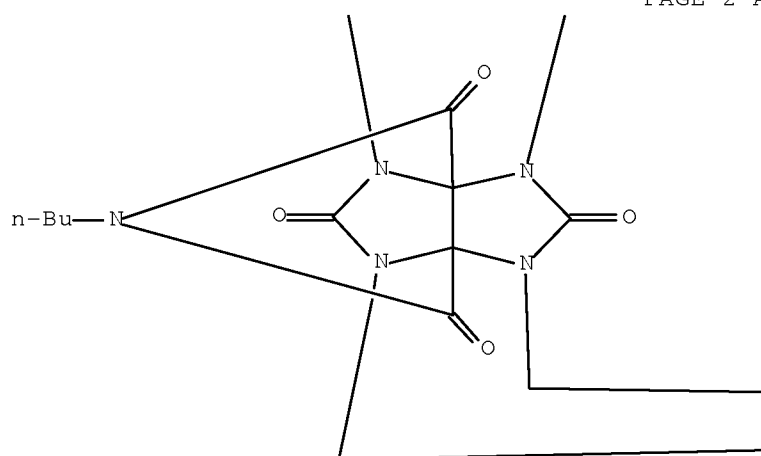
PAGE 1-B



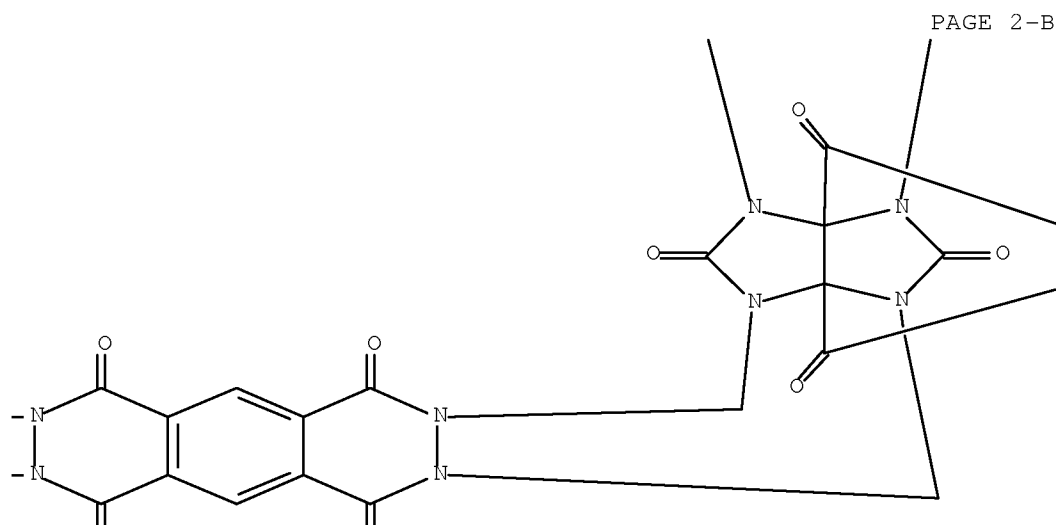
PAGE 1-C



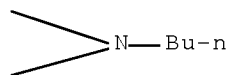
PAGE 2-A







PAGE 2-C

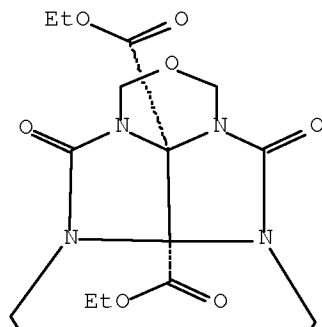


PAGE 3-B

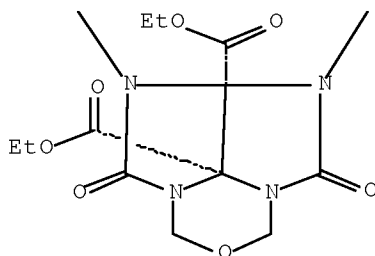
IT 618903-34-7P 618903-36-9P 618903-37-0P  
 618906-26-6P 618906-28-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of cucurbit[n]uril compds. and analogs as host compds. for  
 host-guest complexes or cucurbit[6]uril-trirotaxane compound)  
 RN 618903-34-7 HCAPLUS  
 CN 1H, 3H, 4H, 5H, 6H, 7H, 9H, 10H, 11H, 12H-2, 8-Dioxa-3a, 4a, 5a, 6a, 9a, 10a, 11a, 12a-  
 octaazadibenzo[gh,g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 10b,10c,12b,12c-tetracarboxylic acid, 4,6,10,12-tetraoxo-, tetraethyl  
 ester, (10b $\alpha$ ,10c $\alpha$ ,12b $\alpha$ ,12c $\alpha$ )- (9CI) (CA INDEX  
 NAME)

Relative stereochemistry.

PAGE 1-A

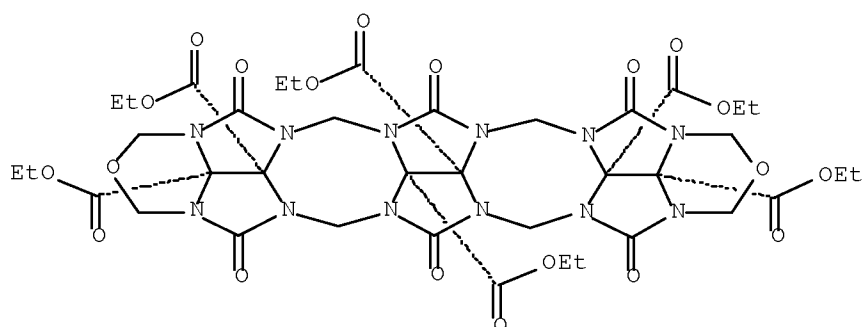


PAGE 2-A



RN 618903-36-9 HCAPLUS  
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 3a, 4a, 5a, 6a, 7a, 8a, 11a, 12a, 13a, 14a, 15a, 16a-  
 dodecaazabisbenzo[3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-cd:1', 2', 3'-  
 gh]pentalene-12b, 12c, 14b, 14c, 16b, 16c-hexacarboxylic acid,  
 4, 6, 8, 12, 14, 16-hexaoxo-, hexaethyl ester,  
 (12b $\alpha$ , 12c $\alpha$ , 14b $\alpha$ , 14c $\alpha$ , 16b $\alpha$ , 16c $\alpha$ )- (9CI)  
 (CA INDEX NAME)

Relative stereochemistry.

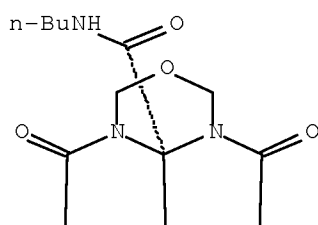


RN 618903-37-0 HCAPLUS

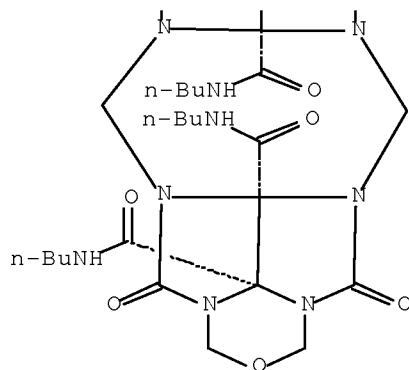
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Relative stereochemistry.

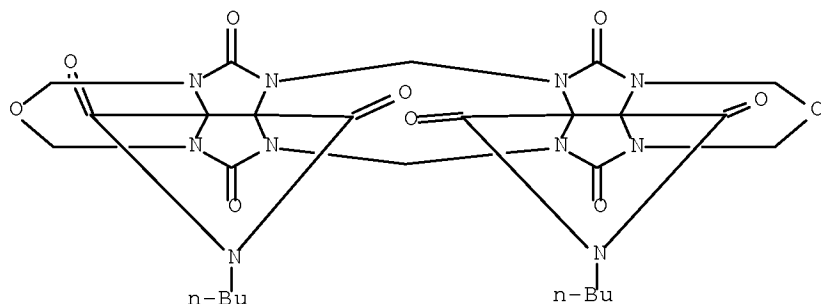
PAGE 1-A



PAGE 2-A



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 bis[1, 3, 5]oxadiazino[3', 4':3, 4]pyrrolo[3', 4':4, 5]imidazo[1, 5-a:1', 5'-  
 e][1, 3, 5, 7]tetrazocine-6, 10, 12, 18, 22, 24, 25, 26 (11H, 23H)-octone,  
 11, 23-dibutyl-, (9 $\alpha$ , 12 $\alpha$ , 21 $\alpha$ , 24 $\alpha$ )-(9CI) (CA  
 INDEX NAME)

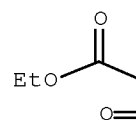


RN 618906-28-8 HCAPLUS  
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 5H, 6H, 9H, 10H, 11H, 12H, 13H, 14H, 17H, 22H, 23H, 26H, 27H, 28H, 29H, 30H, 31H, 34H-  
 2, 3, 4a, 5a, 8a, 9a, 10a, 11a, 12a, 13a, 16a, 17a, 19, 20, 21a, 22a, 25a, 26a, 27a, 28a, 29a,  
 30a, 33a, 34a-tetracosazabispentaleno[1', 6':4, 5, 6]cyclohepta[1, 2-i:1', 2'-  
 i']cycloocta[1''', 2''', 3''':3'', 4'';  
 5''', 6''', 7''':3'', 4'']dipentaleno[1'', 6'':4, 5, 6;  
 1''', 6''':4', 5', 6']dicyclohepta[1, 2-b:1', 2'-b']dianthracene-  
 2a, 19a, 21b, 27b, 27c, 29b, 29c, 34b-octacarboxylic acid,  
 8, 16, 25, 33-tetrahydro-1, 4, 6, 8, 10, 12, 14, 16, 18, 21, 23, 25, 27, 29, 31, 33-  
 hexadecaexo-, octaethyl ester, stereoisomer (9CI) (CA INDEX NAME)

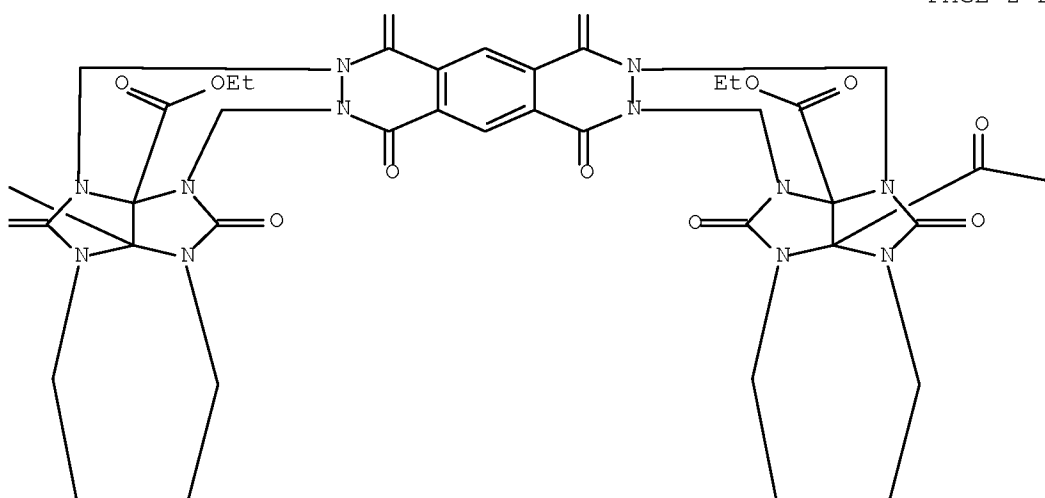
PAGE 1-B



PAGE 2-A



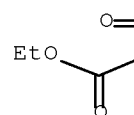
PAGE 2-B



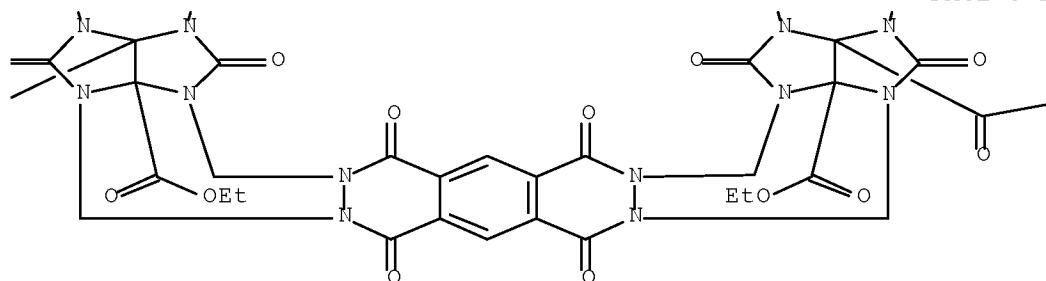
PAGE 2-C

—OEt

PAGE 3-A



PAGE 3-B



PAGE 3-C

—OEt

IT 283175-97-3DP, Cucurbit[6]uril, tri-rotaxane compound

618903-32-5P 618903-33-6P 618903-35-8P

618903-38-1P 618906-32-4P 618906-33-5P

850038-12-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of cucurbit[n]uril compds. and analogs as host compds. for  
host-guest complexes or cucurbit[6]uril-trirotaxane compound)

RN 283175-97-3 HCAPLUS

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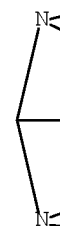
5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-

2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-

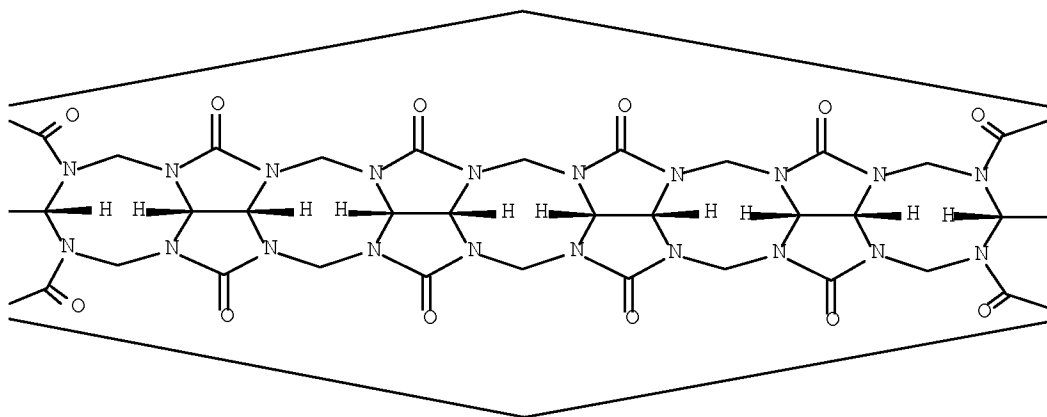
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer (CA  
INDEX NAME)

Relative stereochemistry.

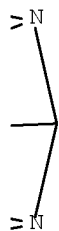
PAGE 1-A



PAGE 1-B



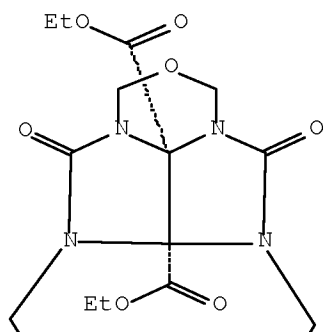
PAGE 1-C



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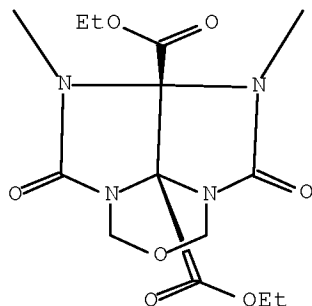
Relative stereochemistry.

PAGE 1-A





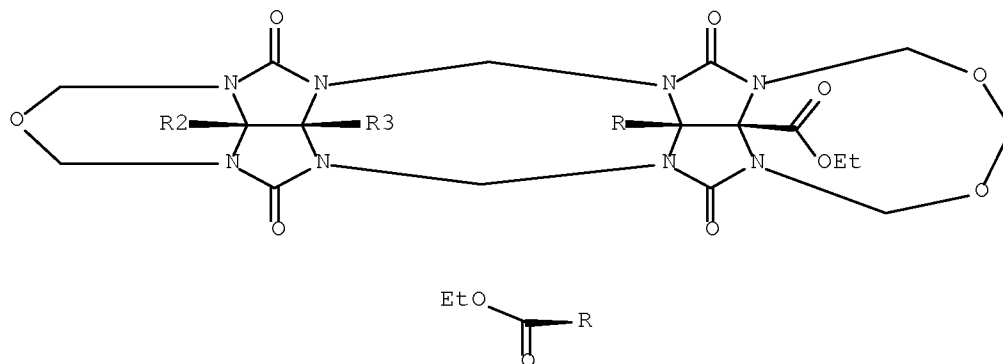
PAGE 2-A



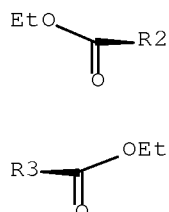
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 3a, 4a, 5a, 6a, 11a, 12a, 13a, 14a-octaazabenzog[h]cycloocta[g'h']cycloocta[1, 2, 3-  
 cd:5, 6, 7-c'd']dipentalene-12b, 12c, 14b, 14c-tetracarboxylic acid,  
 4, 6, 12, 14-tetraoxo-, tetraethyl ester,  
 (12b $\alpha$ , 12c $\alpha$ , 14b $\alpha$ , 14c $\alpha$ )- (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 2-A

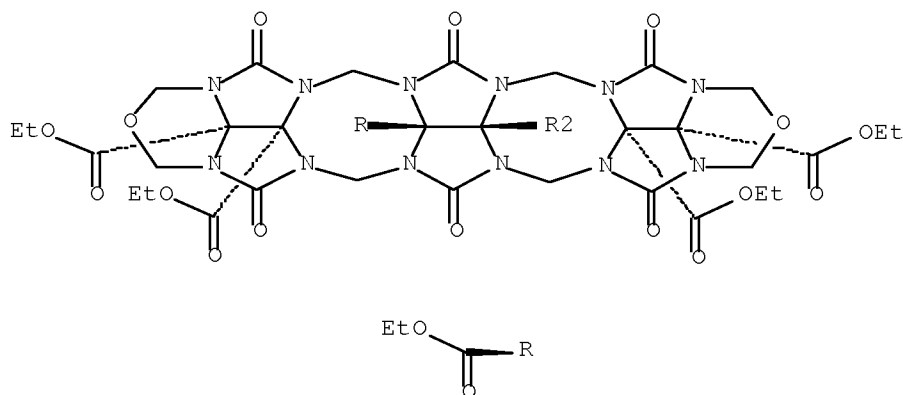


RN 618903-35-8 HCAPLUS  
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 3a, 4a, 5a, 6a, 7a, 8a, 11a, 12a, 13a, 14a, 15a, 16a-  
 dodecaazabisbenzo[3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-cd:1', 2', 3'-  
 gh]pentalene-12b, 12c, 14b, 14c, 16b, 16c-hexacarboxylic acid,

4,6,8,12,14,16-hexaoxo-, hexaethyl ester,  
 (12b $\alpha$ , 12c $\alpha$ , 14b $\beta$ , 14c $\beta$ , 16b $\alpha$ , 16c $\alpha$ )- (9CI)  
 (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



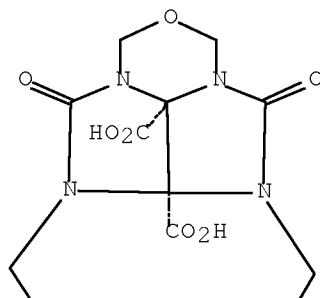
PAGE 2-A



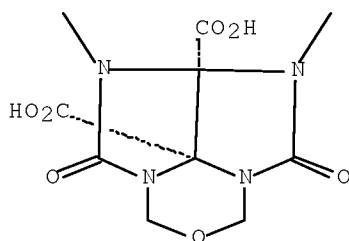
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 octaazadibenzo[gh, g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 10b, 10c, 12b, 12c-tetracarboxylic acid, 4, 6, 10, 12-tetraoxo-,  
 (10b $\alpha$ , 10c $\alpha$ , 12b $\alpha$ , 12c $\alpha$ )- (9CI) (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A

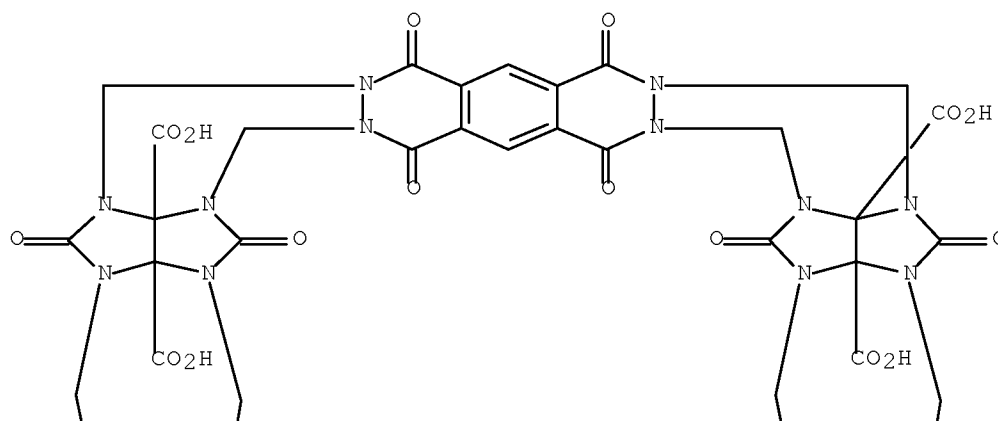


PAGE 2-A

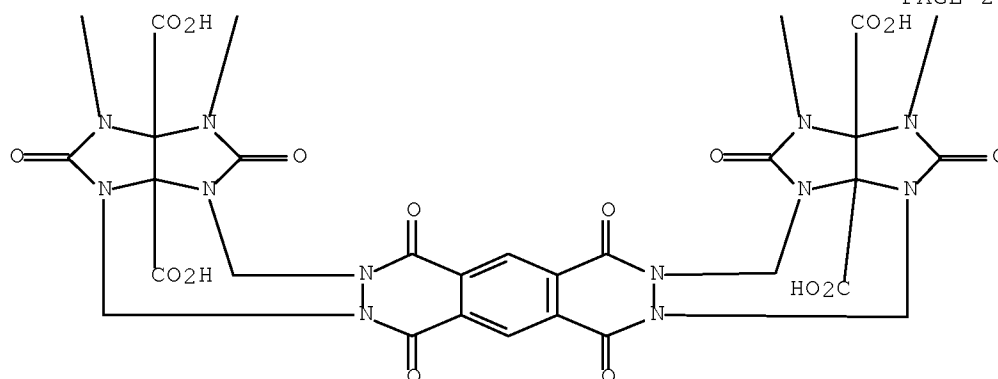


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 2, 3, 4a, 5a, 8a, 9a, 10a, 11a, 12a, 13a, 16a, 17a, 19, 20, 21a, 22a, 25a, 26a, 27a, 28a, 29a,  
 30a, 33a, 34a-tetracosazabispentaleno[1', 6':4, 5, 6]cyclohepta[1, 2-i:1', 2'-  
 i']cycloocta[1''', 2''', 3''':3'', 4'';  
 5''', 6''', 7''':3'', 4'']dipentaleno[1'', 6'':4, 5, 6;  
 1'', 6'':4', 5', 6']dicyclohepta[1, 2-b:1', 2'-b']dianthracene-  
 2a, 19a, 21b, 27b, 27c, 29b, 29c, 34b-octacarboxylic acid,  
 8, 16, 25, 33-tetrahydro-1, 4, 6, 8, 10, 12, 14, 16, 18, 21, 23, 25, 27, 29, 31, 33-  
 hexadecaexo-, stereoisomer (9CI) (CA INDEX NAME)

PAGE 1-A



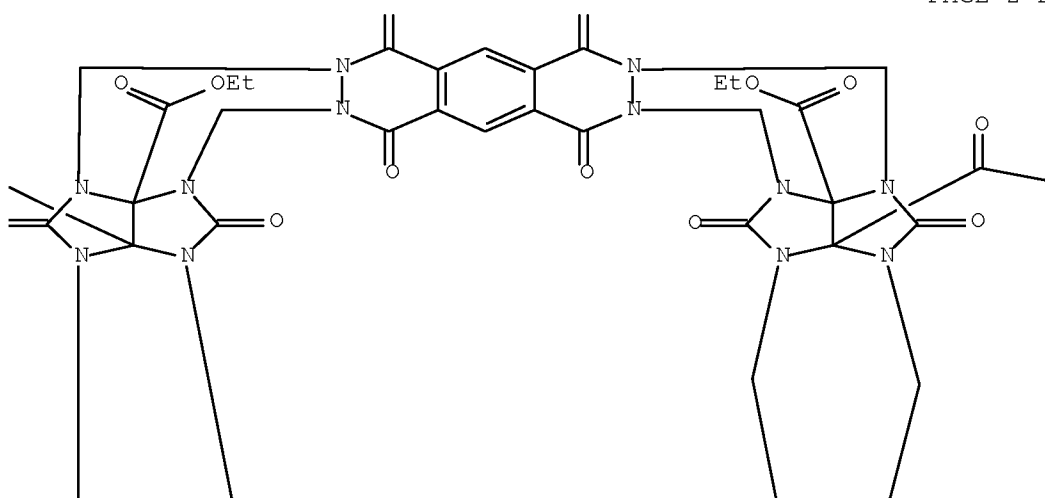
PAGE 2-A



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 eicosaazabispentaleno[1',6':4,5,6]cyclohepta[1,2-i:1',2'-  
 i']pentaleno[1'',6'':4,5,6;3'',4'':4',5',6']dicyclohepta[1,2-b:1',2'-  
 b']dianthracene-2a,17a,19b,25b,25c,30b-hexacarboxylic acid,  
 8,14,23,29-tetrahydro-1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradeca-oxo-,  
 hexaethyl ester, stereoisomer (9CI) (CA INDEX NAME)

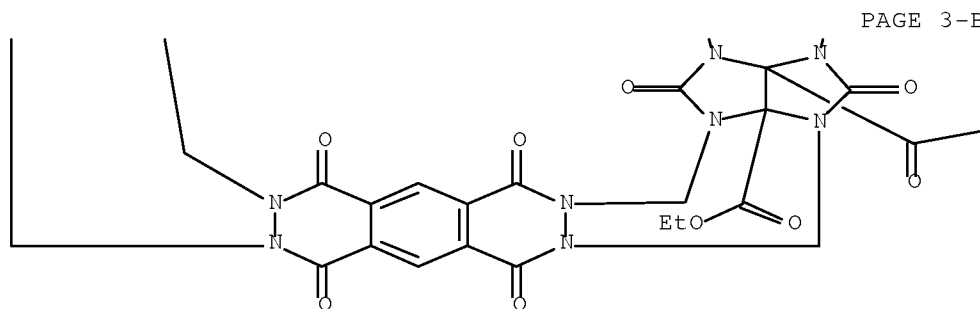
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PAGE 2-B



PAGE 2-C

—OEt

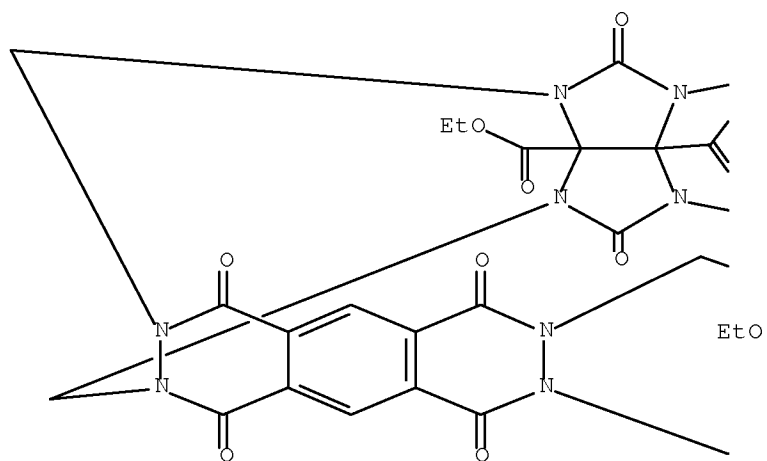


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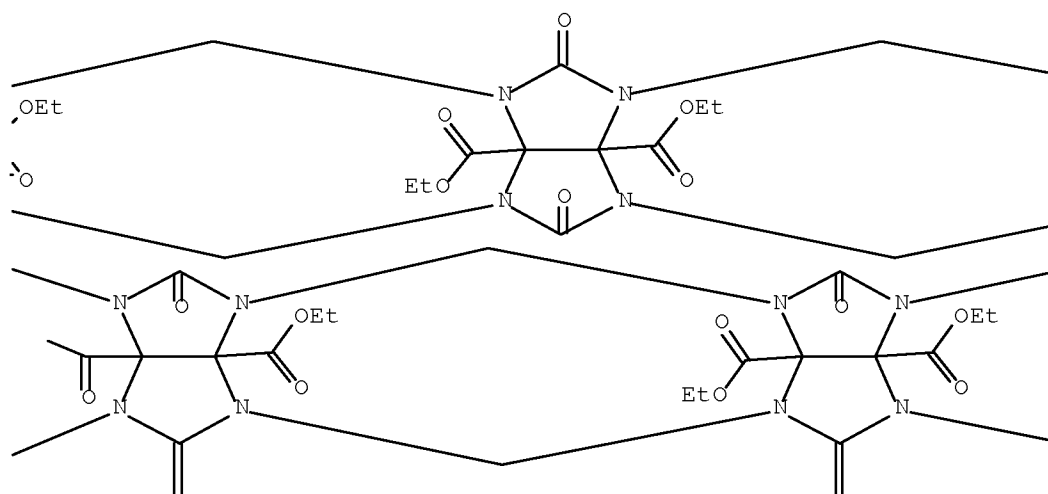
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RN 850038-12-9 HCAPLUS  
 CN 1H, 4H, 18H, 21H-2, 20:3, 19-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 13H, 14H, 15H, 16H, 17H, 22H, 23H, 24H, 25H, 26H, 27H, 30H, 31H, 32H  
 , 33H, 34H-2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 12a, 13a, 14a, 15a, 16a, 17a, 19, 20, 21a, 22a, 23a, 2  
 4a, 25a, 26a, 29a, 30a, 31a, 32a, 33a, 34a-  
 octacosazabispentaleno[1''''', 6''''': 5''''', 6''''', 7''''']cycloocta[1''''', 2'  
 ''', 3''''': 3''''', 4''''']pentaleno[1''''', 6''''': 5''''', 6''''', 7''''']cycloocta[1''''', 2''', 3''':  
 3'', 4'']pentaleno[1'', 6': 4, 5, 6]cyclohept[1, 2-b: 1', 2'-i]anthracene-  
 2a, 19a, 21b, 23b, 23c, 25b, 25c, 31b, 31c, 33b, 33c, 34b-dodecacarboxylic acid,  
 12, 29-dihydro-1, 4, 6, 8, 10, 12, 14, 16, 18, 21, 23, 25, 27, 29, 31, 33-hexadeca-oxo-,  
 dodecaethyl ester, stereoisomer (9CI) (CA INDEX NAME)

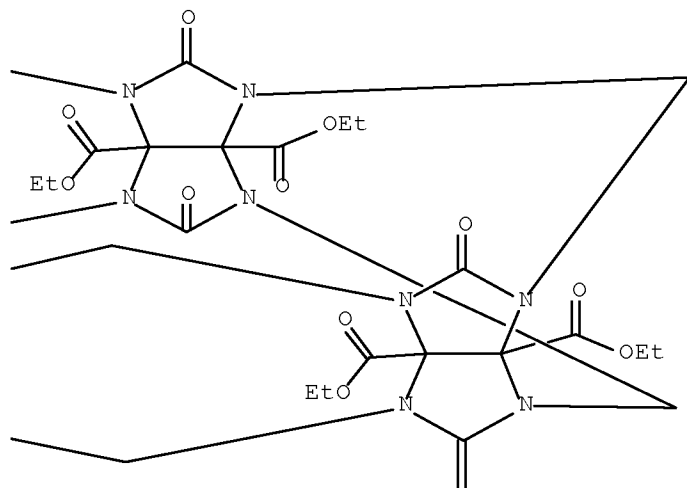
PAGE 1-A



PAGE 1-B



PAGE 1-C



PAGE 2-B

PAGE 2-C

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 10 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:238993 HCAPLUS Full-text  
 DN 142:316868  
 TI Novel synthetic binding pairs and uses thereof  
 IN Keinan, Ehud  
 PA Technion Research & Development Foundation Ltd., Israel  
 SO PCT Int. Appl., 133 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005023816	A2	20050317	WO 2004-IL796	20040905 <--
	WO 2005023816	A3	20050714		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				



TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

CA 2537736 A1 20050317 CA 2004-2537736 20040905 <--

EP 1668015 A2 20060614 EP 2004-770467 20040905 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK

US 20060292570 A1 20061228 US 2006-570786 20060306 <--

PRAI US 2003-499735P P 20030904 <--

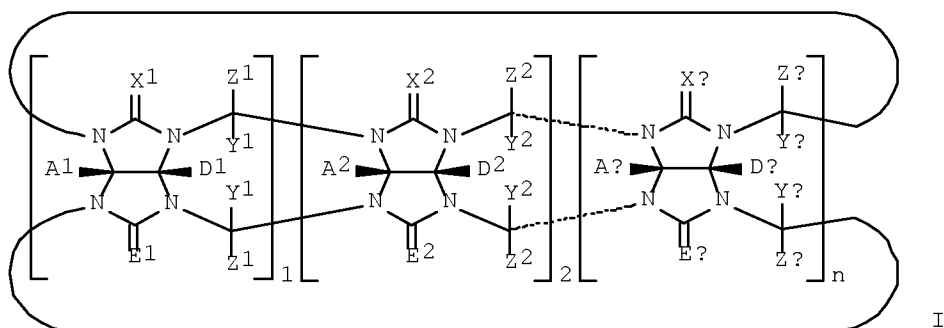
US 2004-535829P P 20040113 <--

WO 2004-IL796 W 20040905 <--

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 142:316868; MARPAT 142:316868

GI



I

AB Cucurbituril assemblies I [ $X_n$ ,  $E_n$  = O, S, NR;  $R'$ ,  $A_n$ ,  $D_n$ ,  $Y_n$ ,  $Z_n$  = H, C1-20-alkyl, C2-20-alkenyl, C2-20-alkynyl, C1-20-alkoxy, C1-20-aminoalkyl, C5-20-cycloalkyl, C4-20-heteroalicyclicyl, C6-20-aryl, C6-20-heteroaryl (with the proviso that at least one of  $A_n$  or  $D_n$  = functional group for forming an assembly);  $n$  = 5-20], polyamine structures capable of binding thereto, affinity pairs of cucurbituril assemblies and such polyamine structures and methods utilizing same are disclosed. Thus, cucurbit[6]uril [I;  $A_n$  =  $D_n$  =  $Y_n$  =  $Z_n$  = H,  $E_n$  =  $X_n$  = O,  $n$  = 1-6] was prepared from a mixture of glycouril and dimethylcyclopentanoglycouril via cyclization with  $CH_2O$  in the presence of  $H_2SO_4$ , followed by affinity chromatog. Affinity pairing of I [ $A_n$  =  $D_n$  =  $Y_n$  =  $Z_n$  = H,  $E_n$  =  $X_n$  = O,  $n$  = 1-6] was accomplished with 2,4-hexadiyne-1,6-diamine dihydrochloride, 3-hexyne-1,6-diamine dihydrochloride and 2,4,6-octatriyne-1,8-diamine dihydrochloride.

IT 847977-84-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

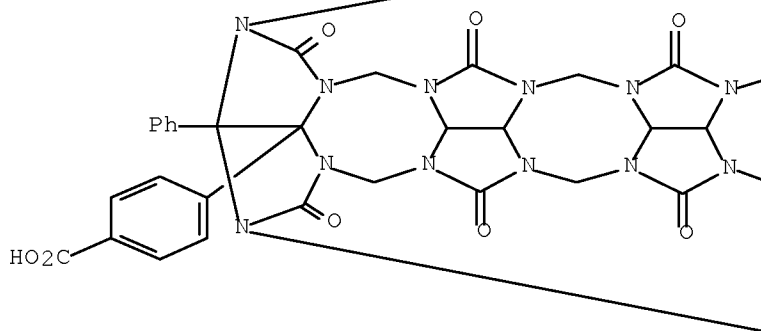
(preparation and amidation of, with protein derivative or benzenetriamine;  
 preparation of cucurbituril assemblies and polyamine affinity pairs)

RN 847977-84-8 HCAPLUS

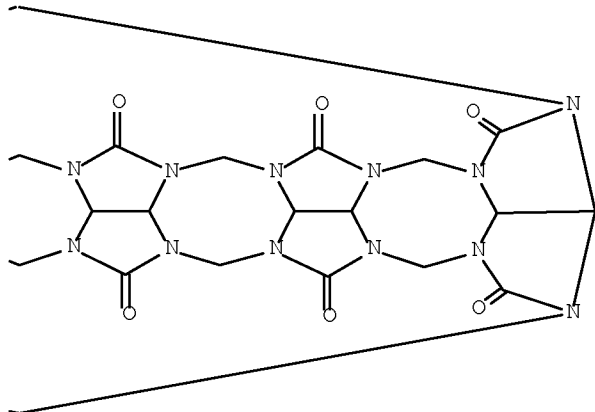
CN Benzoic acid, 4-(decahydro-1,4,6,8,10,12,14,17,19,21,23,25-dodecaoxo-26b-phenyl-1H,4H,14H,17H-2,16:3,15-dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24

a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalen-2a(26bH)-yl)-, stereoisomer (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IT 847924-30-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation and crystal structure of; preparation of cucurbituril  
assemblies and  
polyamine affinity pairs)

RN 847924-30-5 HCAPLUS

CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer,

compd. with 2,4-hexadiyne-1,6-diamine dihydrochloride (1:1) (9CI) (CA  
INDEX NAME)

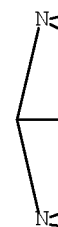
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CRN 283175-97-3

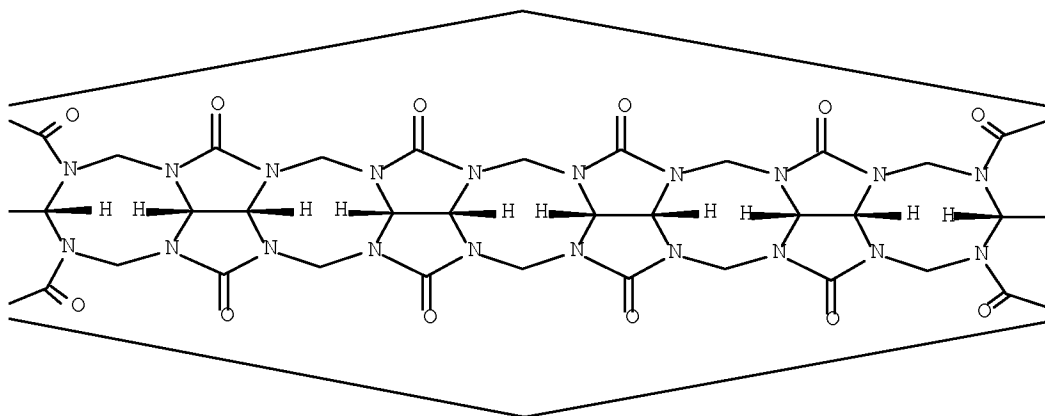
CMF C36 H36 N24 O12

Relative stereochemistry.

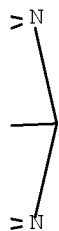
PAGE 1-A



PAGE 1-B



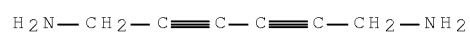
PAGE 1-C



CM 2

CRN 40710-24-5

CMF C6 H8 N2



IT 847924-22-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

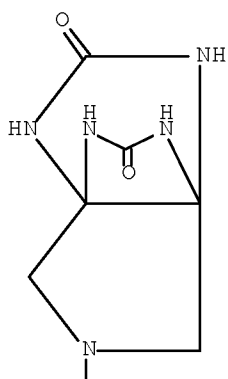
(preparation and cyclization of, with glycouril; preparation of cucurbituril

assemblies and polyamine affinity pairs)

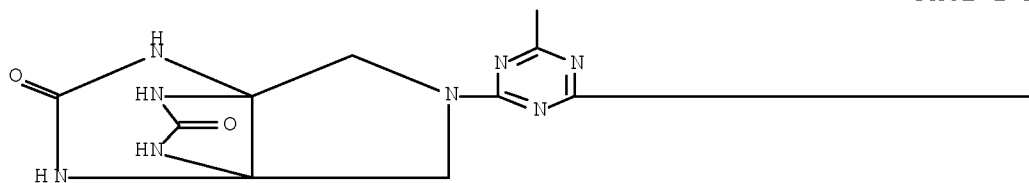
RN 847924-22-5 HCAPLUS

CN 1H,4H-3a,6a-(Methaniminomethano)imidazo[4,5-d]imidazole-2,5(3H,6H)-dione, 8,8',8'''-(1,3,5-triazine-2,4,6-triyl)tris- (9CI) (CA INDEX NAME)

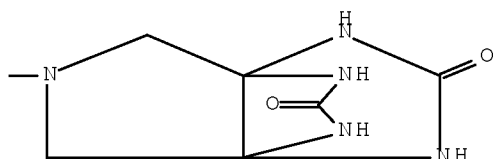
PAGE 1-A



PAGE 2-A



PAGE 2-B



IT 847924-17-8DP, Amberlite XE-305-bound  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation of cucurbituril assemblies and polyamine affinity pairs)

RN 847924-17-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-, stereoisomer,  
 compd. with 1,5-pentanediamine (1:1), bis(trifluoroacetate) (9CI) (CA  
 INDEX NAME)

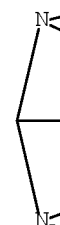
CM 1

CRN 283175-97-3

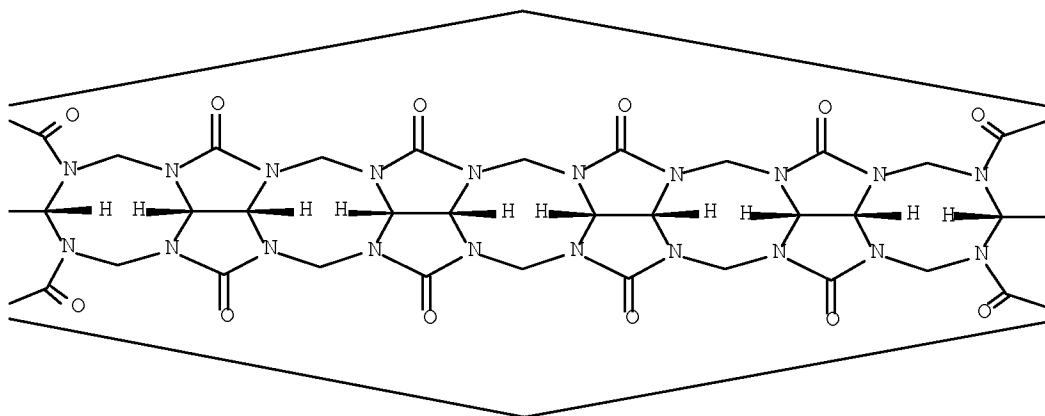
CMF C36 H36 N24 O12

Relative stereochemistry.

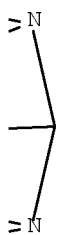
PAGE 1-A



PAGE 1-B

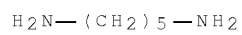


PAGE 1-C



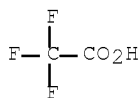
CM 2

CRN 462-94-2  
CMF C5 H14 N2

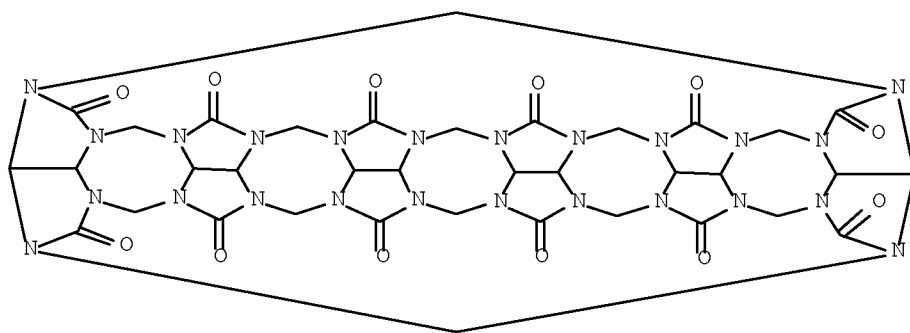


CM 3

CRN 76-05-1  
CMF C2 H F3 O2



IT 80262-44-8P, Cucurbituril 143902-45-8P  
 259886-49-2P, Cucurbit[5]uril 259886-50-5P,  
 Cucurbit[7]uril 259886-51-6P, Cucurbit[8]uril  
 283175-97-3P, Cucurbit[6]uril 307001-50-9P,  
 Cucurbit[10]uril 375372-76-2P 387353-44-8P,  
 Cucurbit[9]uril 406498-90-6P 406498-91-7P  
 686774-22-1P 834918-58-0P, Cucurbit[12]uril  
 847924-46-3P 847924-48-5P 847924-50-9P  
 847924-52-1P 847924-54-3P 847924-56-5P  
 847977-63-3P, Cucurbit[11]uril 847977-64-4P,  
 Cucurbit[13]uril 847977-65-5P, Cucurbit[14]uril  
 847977-66-6P, Cucurbit[15]uril 847977-67-7P,  
 Cucurbit[16]uril 847977-68-8P, Cucurbit[17]uril  
 847977-69-9P, Cucurbit[18]uril 847977-87-1DP,  
 protein-bound amide 847997-42-6P, Cucurbit[19]uril  
 847997-67-5P, Cucurbit[20]uril 848088-96-0P  
 1021182-64-8P 1021182-65-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of cucurbituril assemblies and polyamine affinity pairs)  
 RN 80262-44-8 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro- (CA INDEX NAME)

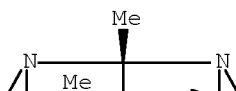


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 2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-  
 eicosaazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pe  
 ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
 1,4,6,8,10,12,15,17,19,21-decone, decahydro-  
 2a,13a,15b,16b,17b,18b,19b,20b,21b,22b-decamethyl-, stereoisomer (CA

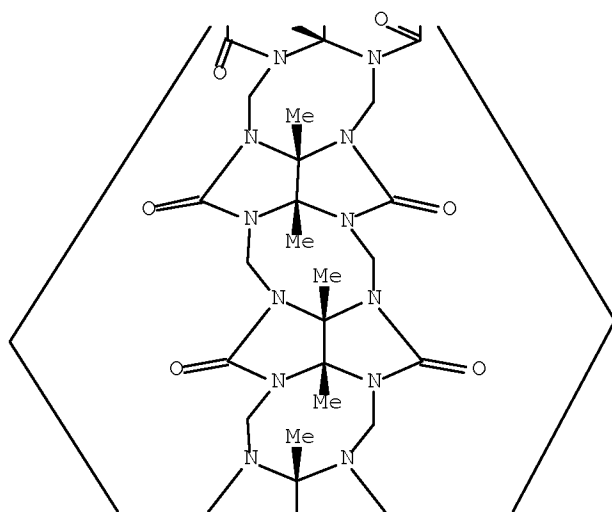
INDEX NAME)

Relative stereochemistry.

PAGE 1-A

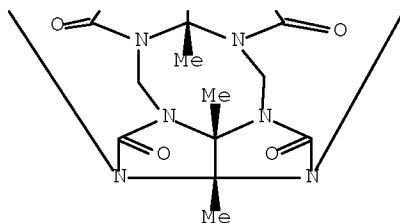


PAGE 2-A





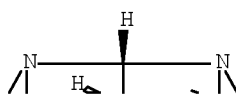
PAGE 3-A



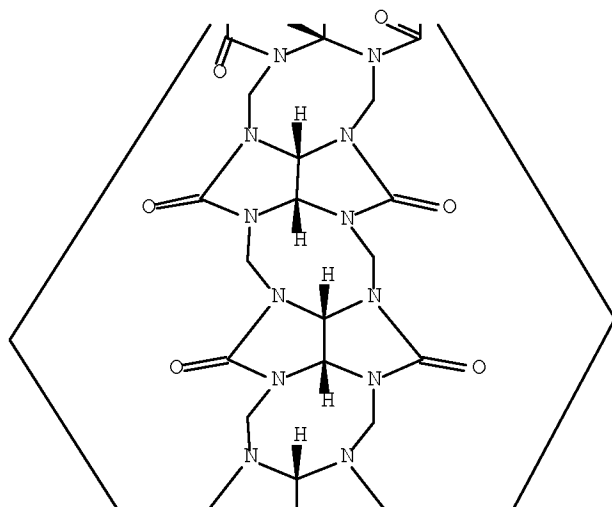
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 5H,6H,7H,8H,9H,10H,11H,16H,17H,18H,19H,20H,21H,22H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-  
 eicosaazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pe  
 ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
 1,4,6,8,10,12,15,17,19,21-decone, decahydro-, stereoisomer (CA INDEX  
 NAME)

Relative stereochemistry.

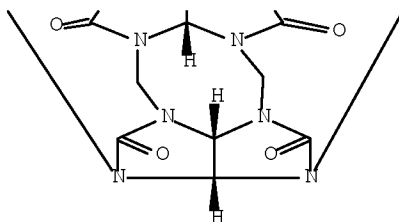
PAGE 1-A



PAGE 2-A



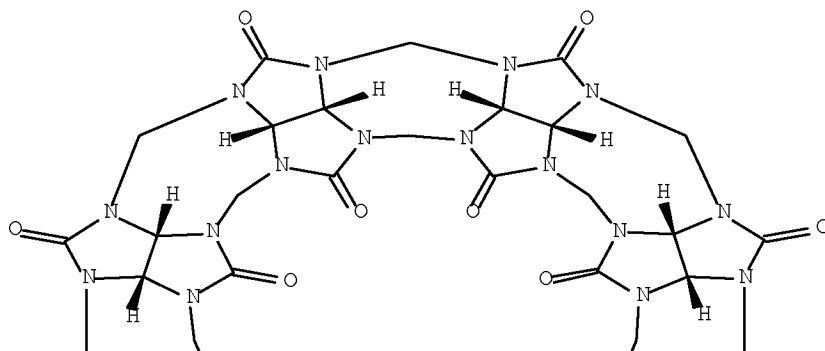
PAGE 3-A



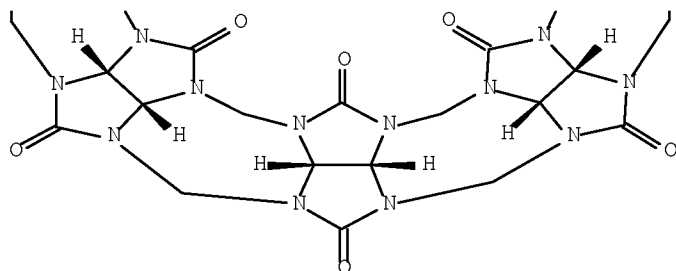
RN 259886-50-5 HCAPLUS  
 CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
 a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
 octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
 ''',3''''':3''''',4''''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':  
 3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
 1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-,  
 stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



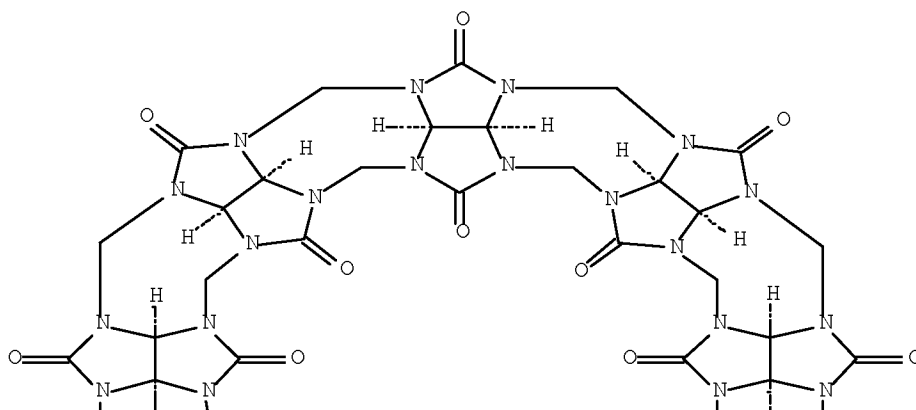
PAGE 2-A



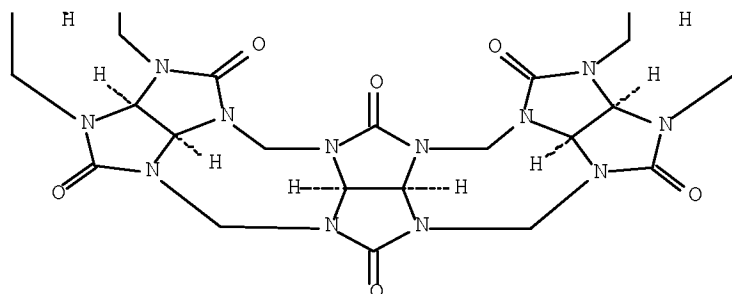
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 CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
 2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3  
 ''':3'',4'']pentaleno[1'',6'':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone, hexadecahydro-,  
 stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



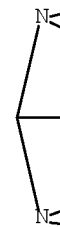
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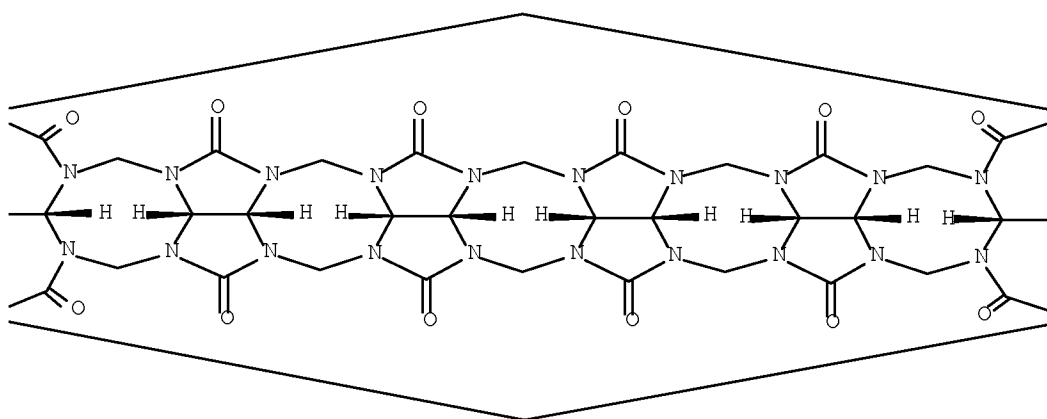
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 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',  
 3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer (CA  
 INDEX NAME)

Relative stereochemistry.

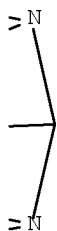
PAGE 1-A



PAGE 1-B



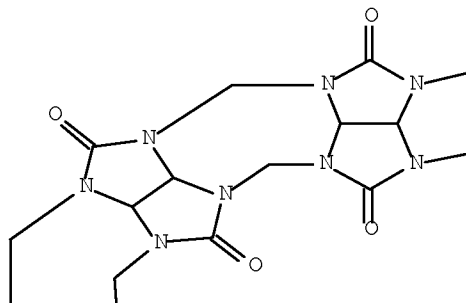
PAGE 1-C



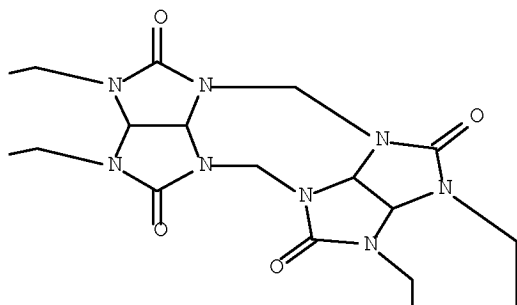
RN 307001-50-9 HCAPLUS  
 CN 2,24:3,23-Dimethanotetracontaazabispentaleno[1''''''',6''''''':5''''''',6''  
 ''',7''''''']cycloocta[1''''''',2''''''',3''''''':3''''''',4''''''']pentaleno[1''

''',6''':5''',6''',7''']cycloocta[1''',2''',3''':3'',4'']pentale  
no[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7  
]cyclooct[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-  
c'd']dipentaleneicosone, eicosahydro-, stereoisomer (CA INDEX NAME)

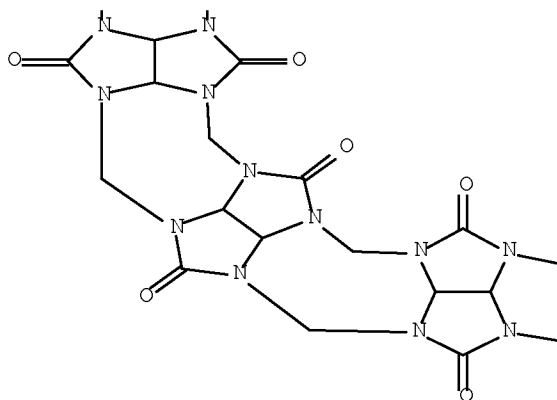
PAGE 1-A



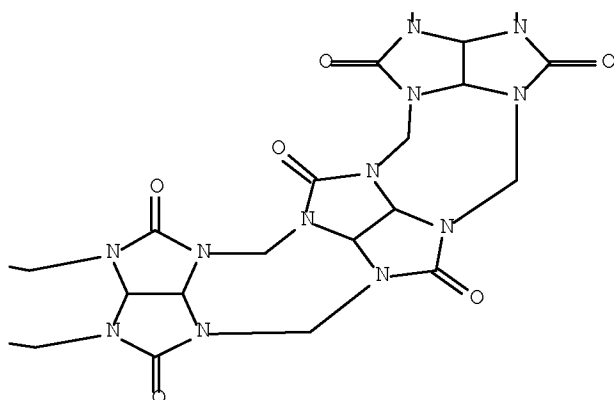
PAGE 1-B



PAGE 2-A



PAGE 2-B



RN 375372-76-2 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone,  
 dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecamethyl-,  
 stereoisomer (CA INDEX NAME)

Relative stereochemistry.

The image shows a chemical structure of a polyimide chain segment. It consists of a repeating unit of imide rings connected by amide linkages. The structure is shown within a perspective view of a polymer chain, with the repeating unit enclosed in a parallelogram. The imide rings are five-membered, and the amide linkages are secondary. Methyl groups are attached to the nitrogen atoms of the imide rings. The structure is drawn with stereochemistry, showing the chain's conformation.

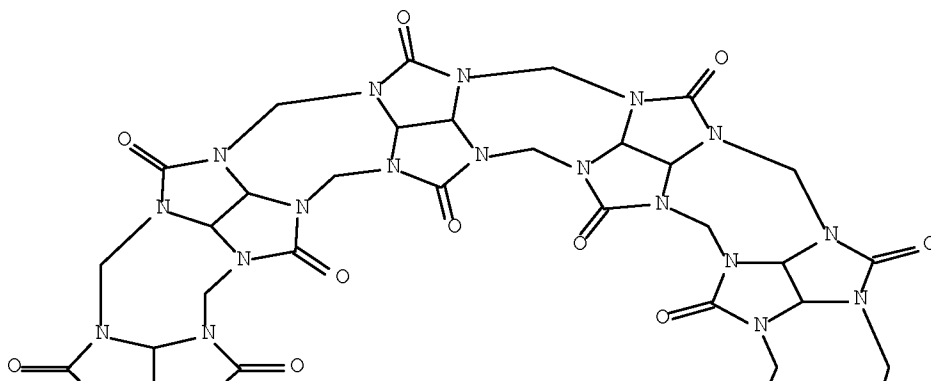
C[N+](=O)[N+](=O)C

RN 387353-44-8 HCAPLUS  
CN 1H, 4H, 20H, 23H-2, 22:3, 21-Dimethano-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 14a, 15a, 16a, 17a, 18a, 19a, 21, 22, 23a, 24

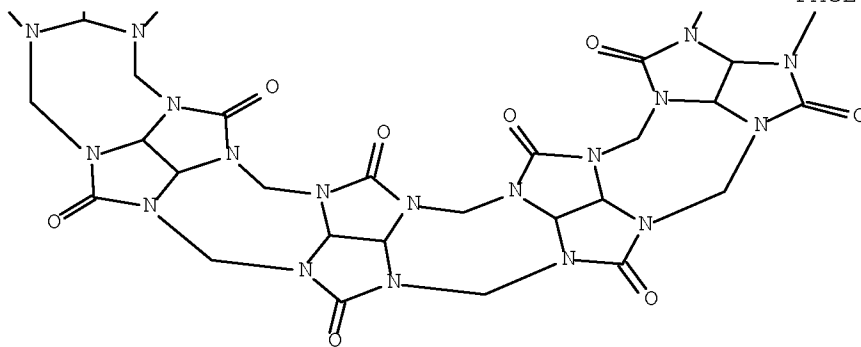


a, 25a, 26a, 27a, 28a, 29a, 30a, 31a, 32a, 33a, 34a, 35a, 36a, 37a, 38a-  
 hexatriacontazabispentaleno[1''''''',6''''''':5''''''',6''''''',7''''''']cyc-  
 loocta[1''''''',2''''''',3''''''':3''''''',4''''''']pentaleno[1''''''',6''''''':5''''''',  
 6''''''',7''''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',  
 6''''',7''''']cycloocta[1''',2''',3''':3'',4'']pentaleno[1'',6'':5'',6,7]cycloocta[1,2,3-  
 cd:1',2',3'-gh]pentaleneoctadecone, octadecahydro-, stereoisomer (CA  
 INDEX NAME)

PAGE 1-A

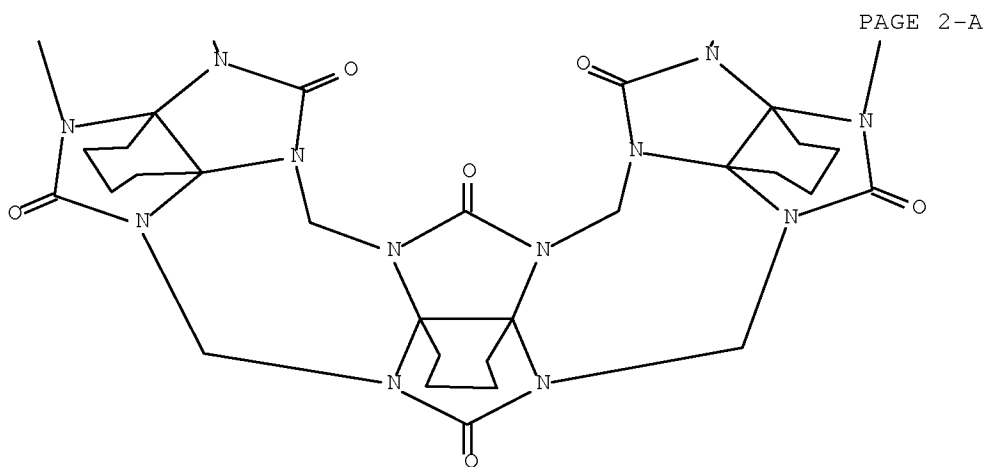
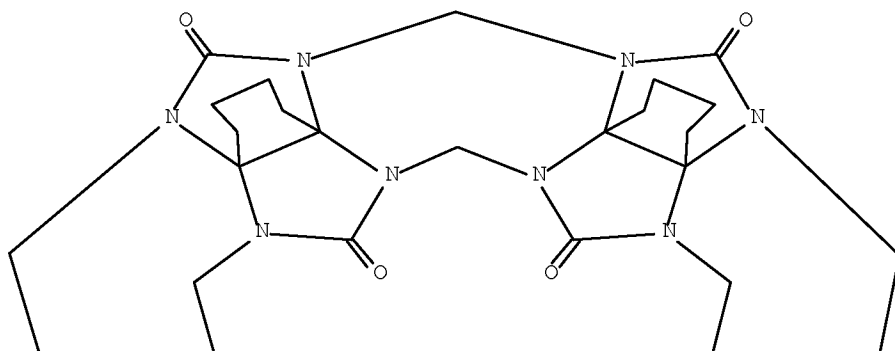


PAGE 2-A



RN 406498-90-6 HCAPLUS  
 CN 8H, 20H, 29H, 36H, 43H, 50H-2, 26:30, 35:37, 42:44, 49-Tetramethano-7, 2a, 25a, 21-  
 (methanonitrilomethanonitrilomethano)-1H, 10H, 12H, 14H, 16H, 18H, 27H, 35H, 42H-  
 bisbenzimidazo[1''',7''':a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz-  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[1,2-c:2',1'-i]benzimidazole-  
 1,10,14,18,27,52,53,54,56,60-decone, eicosahydro- (CA INDEX NAME)

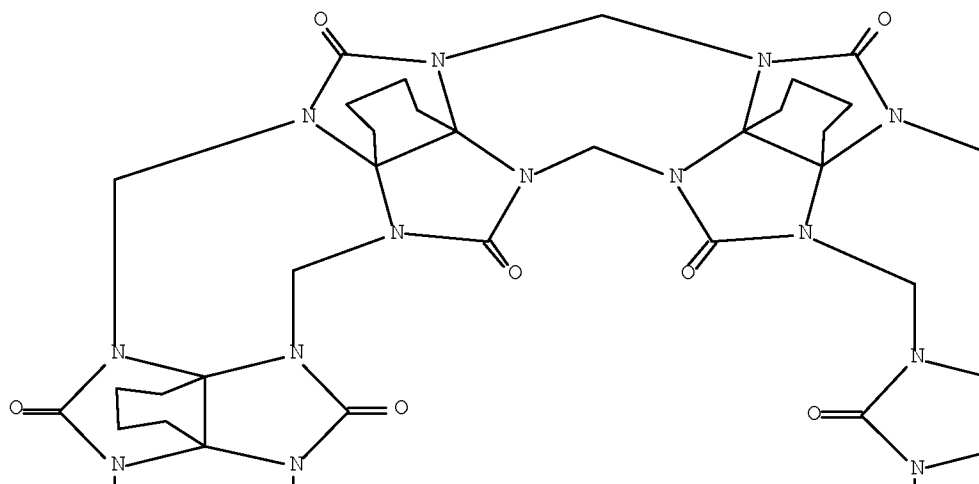
PAGE 1-A



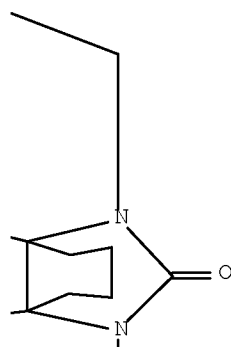
PAGE 2-A

RN 406498-91-7 HCAPLUS  
 CN 8H,24H,33H,40H,47H,54H,61H-2,30:34,39:41,46:48,53:55,60-Pentamethano-  
 7,2a,29a,25-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i''] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone, tetracosahydro- (CA INDEX  
 NAME)

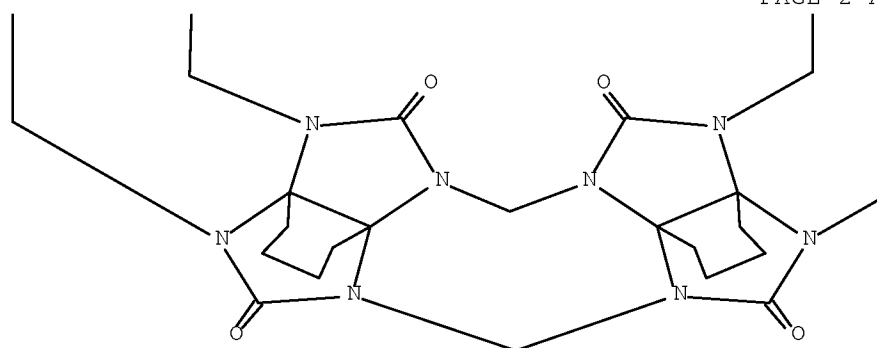
PAGE 1-A




PAGE 1-B



PAGE 2-A



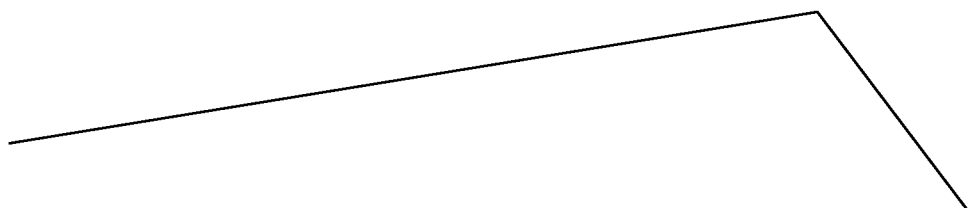
PAGE 2-B



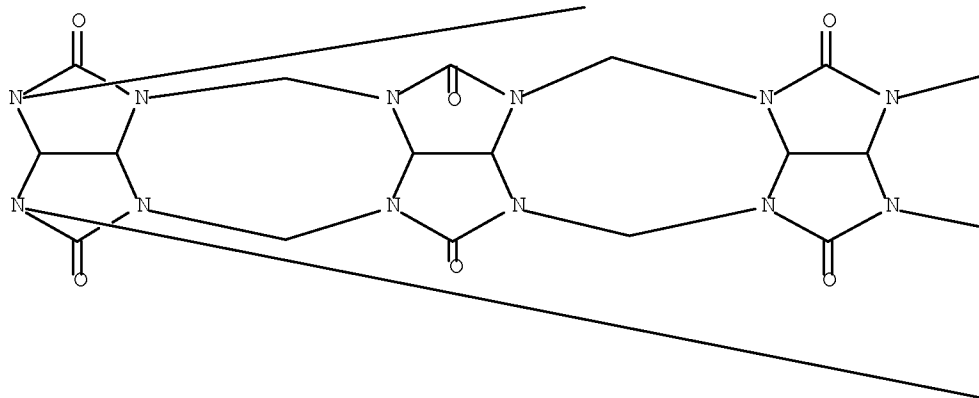
RN 686774-22-1 HCAPLUS  
CN 1H,4H,14H,17H-2,16:3,15-Dimethano-2a,26b-propano-  
5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone, decahydro-28,28-dimethyl- (9CI)  
(CA INDEX NAME)

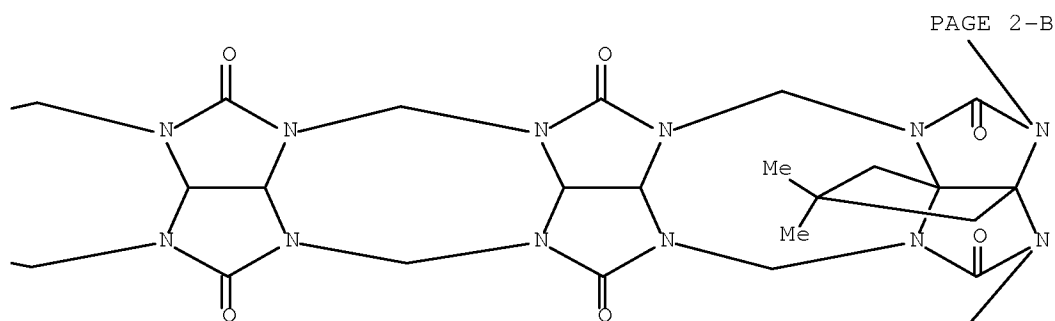
PAGE 1-A

PAGE 1-B



PAGE 2-A





PAGE 3-B

RN 834918-58-0 HCAPLUS  
 CN Dodeca[(dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-tetrayl)-  
 4,6-bis(methylene)] (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

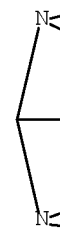
RN 847924-46-3 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer,  
 compd. with 3-hexyne-1,6-diamine dihydrochloride (1:1) (9CI) (CA INDEX  
 NAME)

CM 1

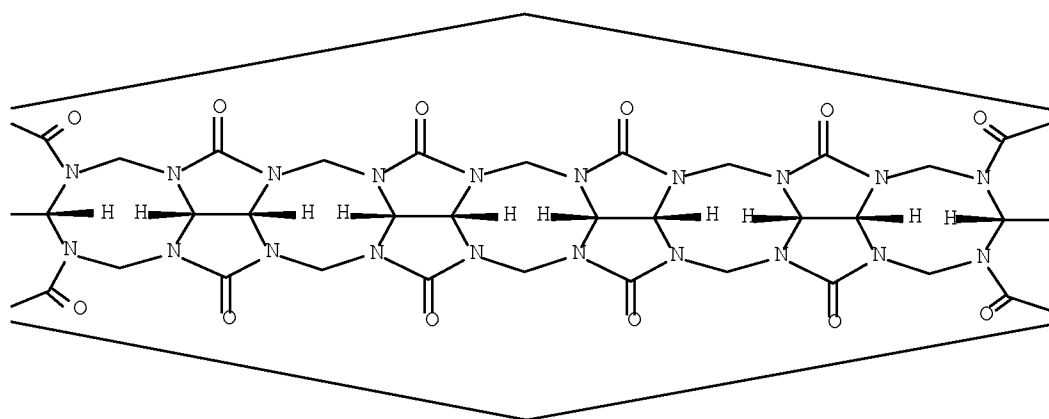
CRN 283175-97-3  
 CMF C36 H36 N24 O12

Relative stereochemistry.

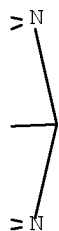
PAGE 1-A



PAGE 1-B



PAGE 1-C



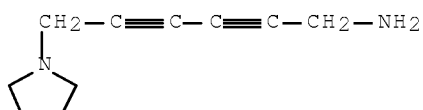
CRN 262852-94-8  
CMF C6 H12 N2



RN 847924-48-5 HCAPLUS  
CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-, stereoisomer,  
compd. with 6-(1-pyrrolidinyl)-2, 4-hexadiyn-1-amine hydrochloride (1:1:2)  
(CA INDEX NAME)

CM 1

CRN 847924-47-4  
CMF C10 H14 N2

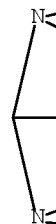


CM 2

CRN 283175-97-3  
CMF C36 H36 N24 O12

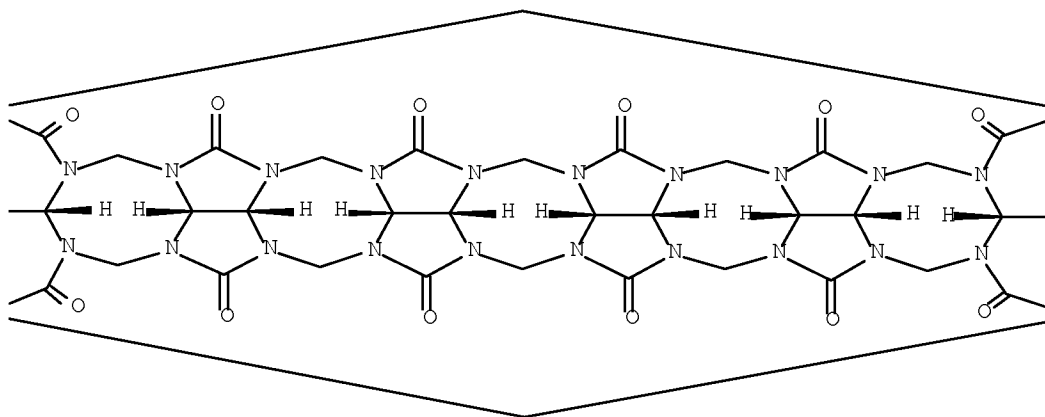
Relative stereochemistry.

PAGE 1-A

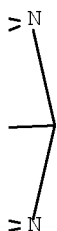




PAGE 1-B



PAGE 1-C

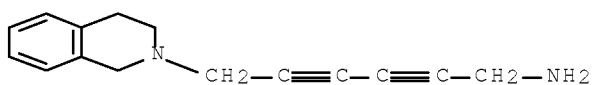


RN 847924-50-9 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2'',  
 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-, stereoisomer,  
 compd. with 6-(3, 4-dihydro-2(1H)-isoquinolinyl)-2, 4-hexadiyn-1-amine  
 dihydrochloride (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 847924-49-6

CMF C15 H16 N2



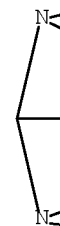
CM 2

CRN 283175-97-3

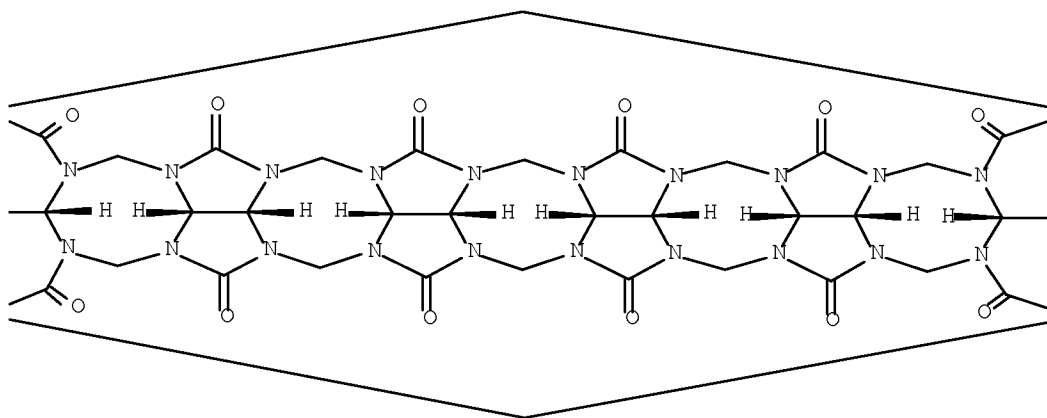
CMF C36 H36 N24 O12

Relative stereochemistry.

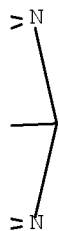
PAGE 1-A



PAGE 1-B



PAGE 1-C



RN 847924-52-1 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer,  
 compd. with 2,4,6-octatriyne-1,8-diamine dihydrochloride (1:1) (9CI) (CA  
 INDEX NAME)

CM 1

CRN 847924-51-0

CMF C8 H8 N2



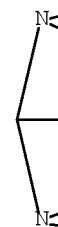
CM 2

CRN 283175-97-3

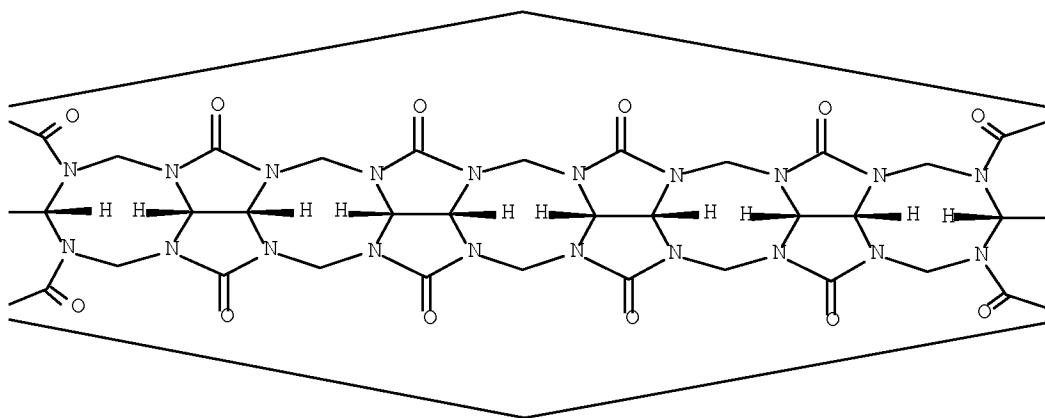
CMF C36 H36 N24 O12

Relative stereochemistry.

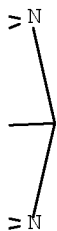
PAGE 1-A



PAGE 1-B



PAGE 1-C

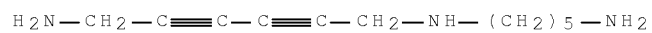


RN 847924-54-3 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer,  
 compd. with N-(5-aminopentyl)-2,4-hexadiyne-1,6-diamine trihydrochloride  
 (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 847924-53-2

CMF C11 H19 N3



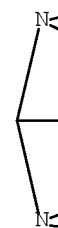
CM 2

CRN 283175-97-3

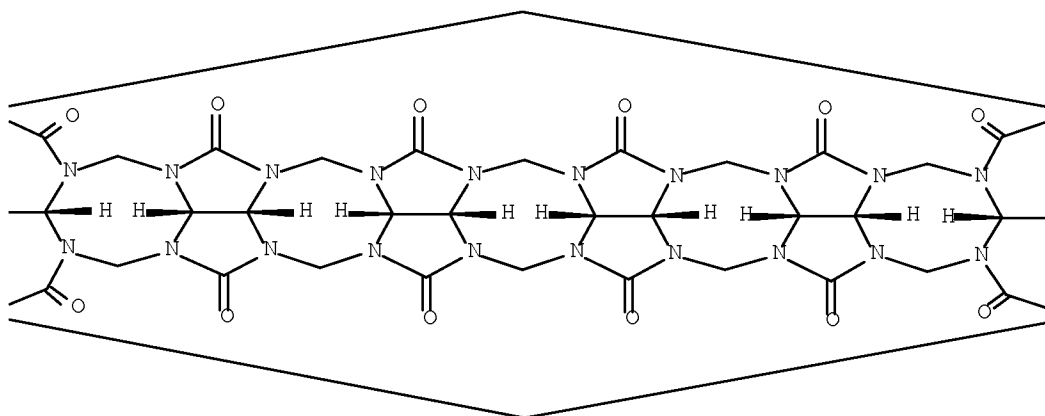
CMF C36 H36 N24 O12

Relative stereochemistry.

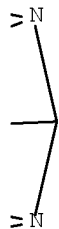
PAGE 1-A



PAGE 1-B



PAGE 1-C

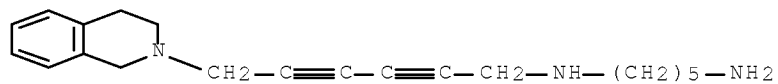


RN 847924-56-5 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer,  
 compd. with N-[6-(3,4-dihydro-2(1H)-isoquinolinyl)-2,4-hexadiynyl]-1,5-  
 pentanediamine trihydrochloride (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 847924-55-4

CMF C20 H27 N3



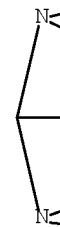
CM 2

CRN 283175-97-3

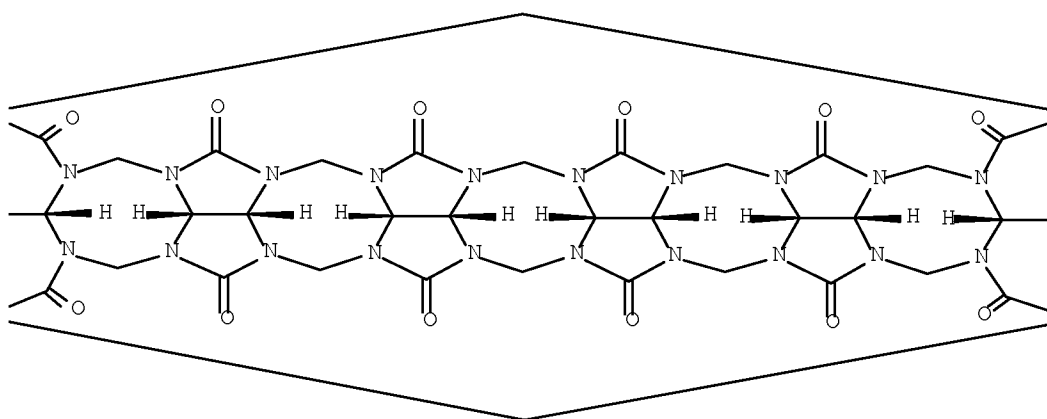
CMF C36 H36 N24 O12

Relative stereochemistry.

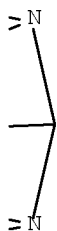
PAGE 1-A



PAGE 1-B



PAGE 1-C

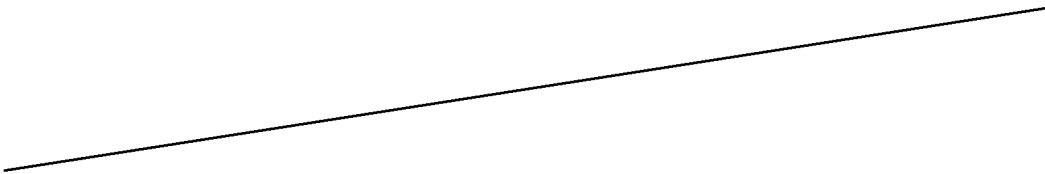


RN 847977-63-3 HCAPLUS  
CN Undeca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-  
tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

PAGE 1-B

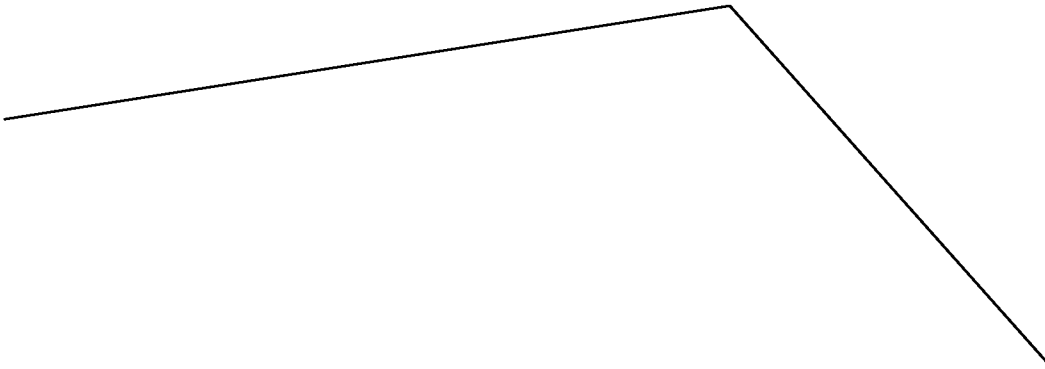


PAGE 1-C





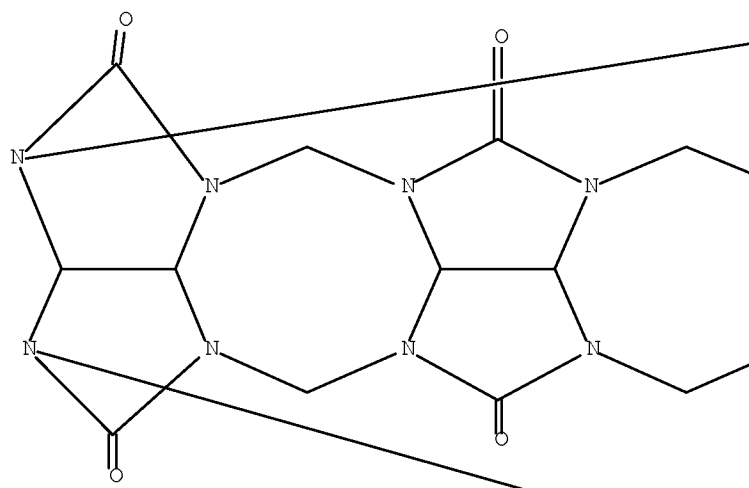
PAGE 1-D



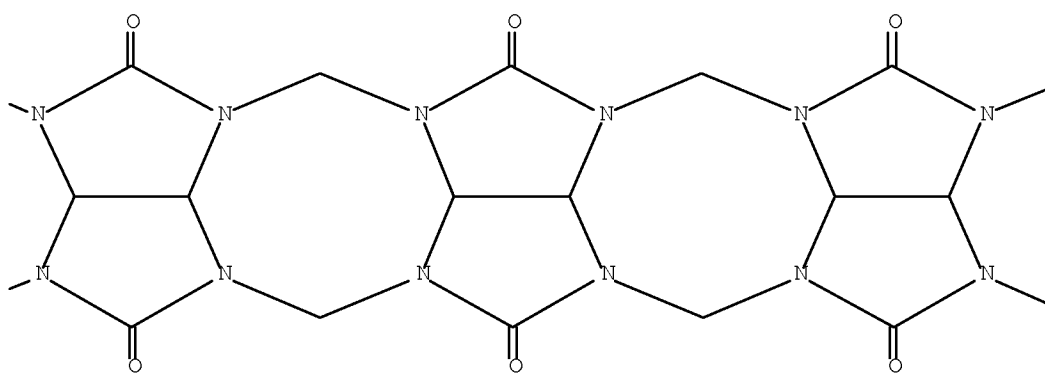
PAGE 1-E



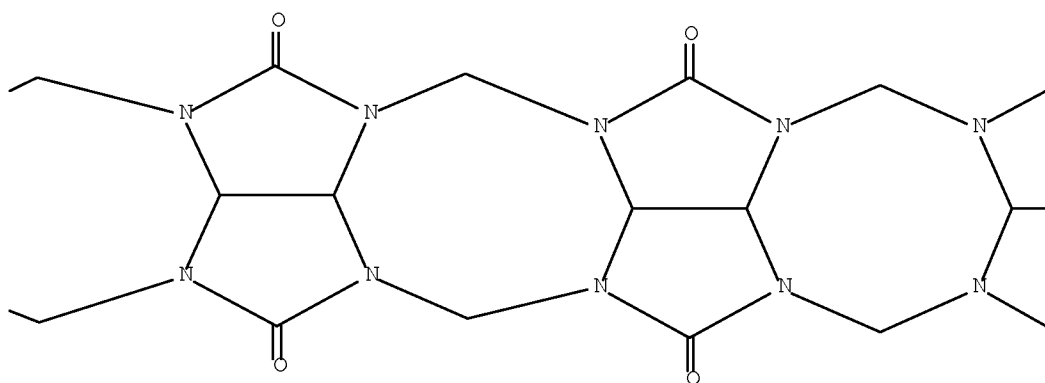
PAGE 2-A



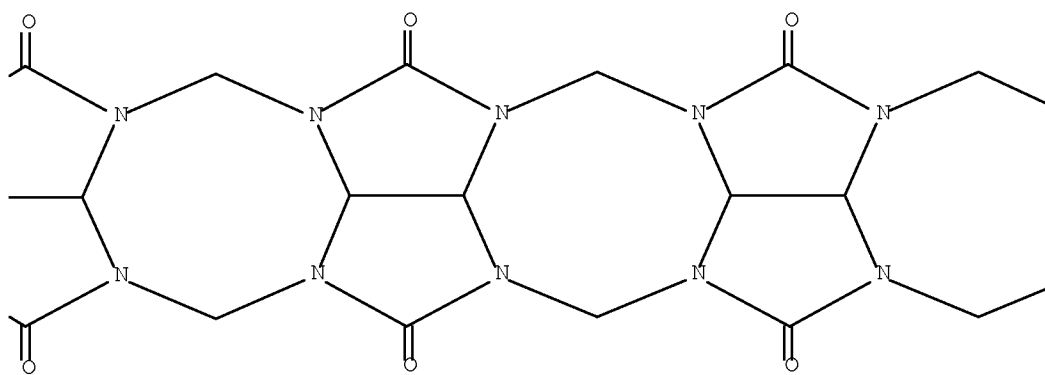
PAGE 2-B



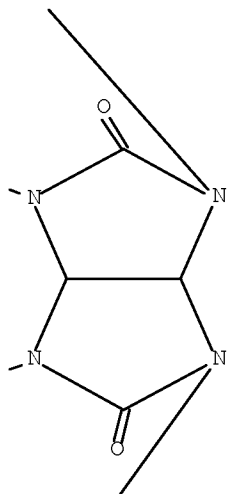
PAGE 2-C



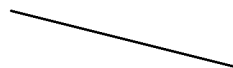
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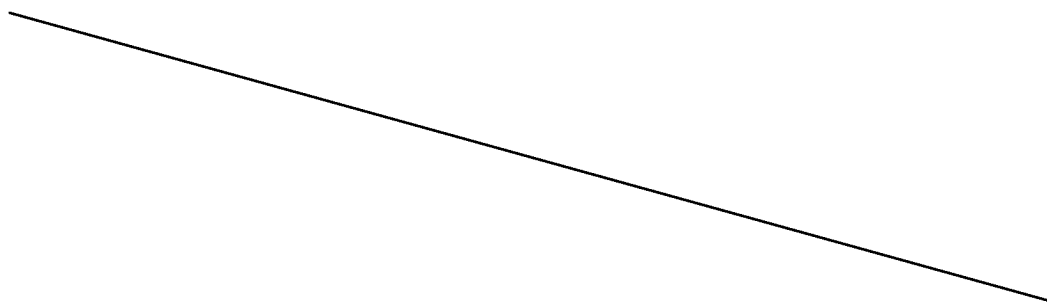
PAGE 2-E



PAGE 3-A



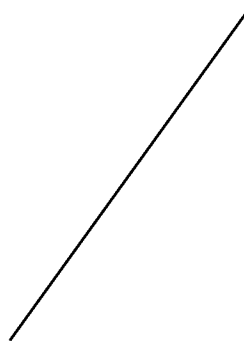
PAGE 3-B



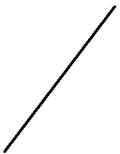
PAGE 3-C



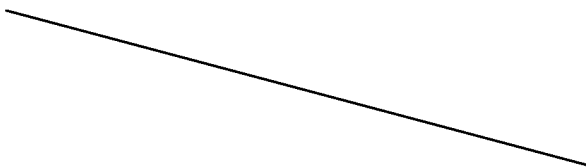
PAGE 3-D



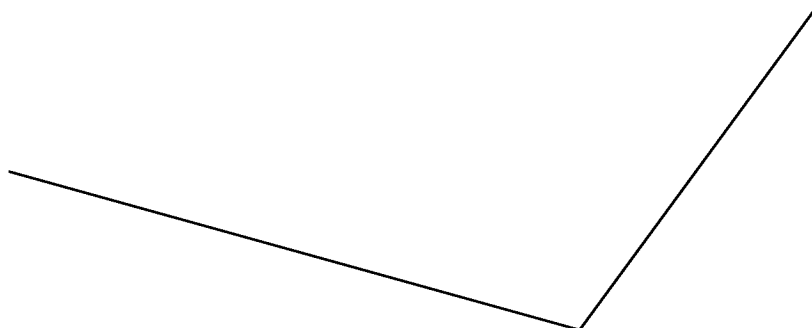
PAGE 3-E



PAGE 4-C

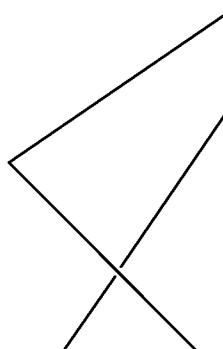


PAGE 4-D

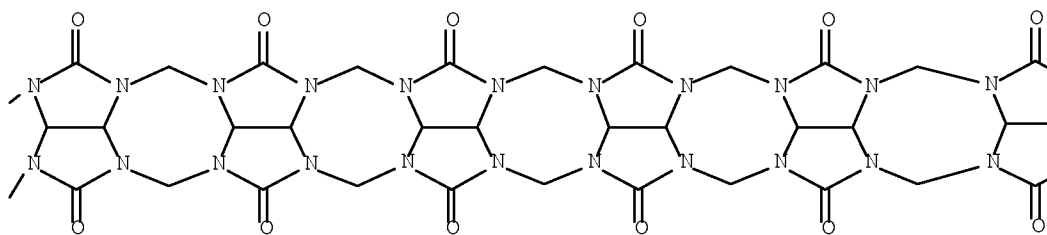


RN 847977-64-4 HCAPLUS  
CN Trideca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-  
tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

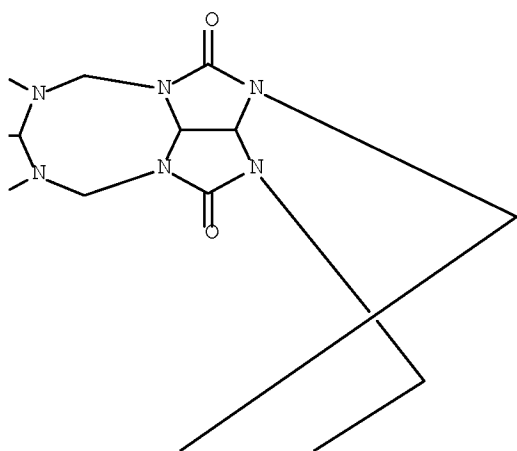
PAGE 1-A



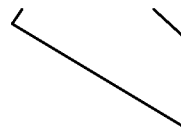
PAGE 1-B



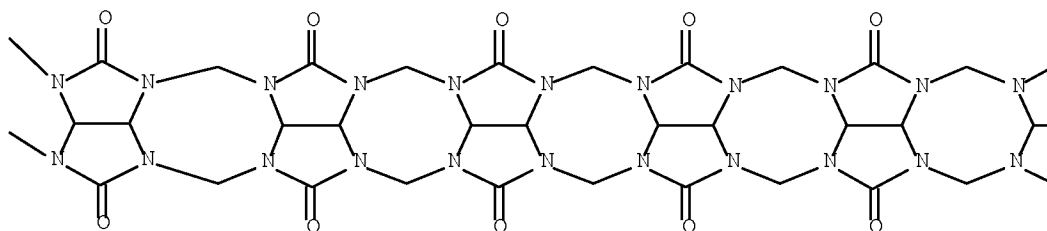
PAGE 1-C



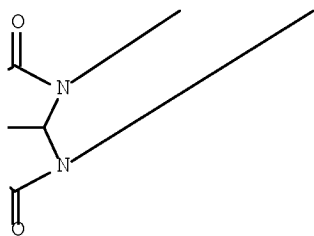
PAGE 2-A



PAGE 2-B



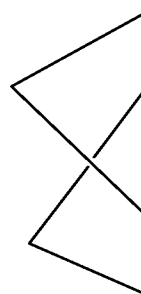
PAGE 2-C



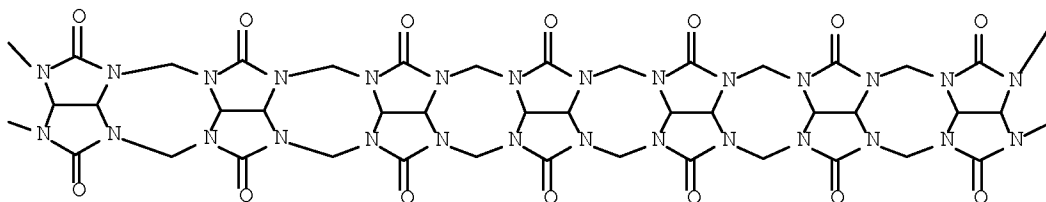
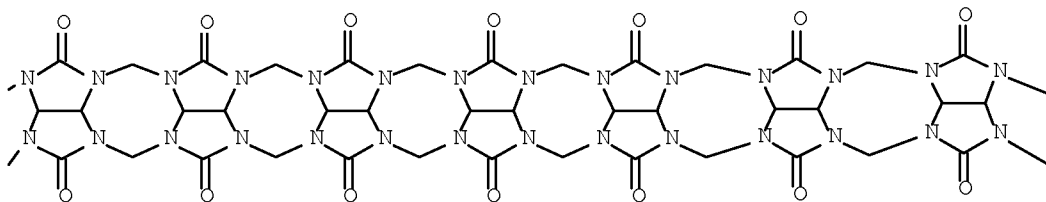
RN 847977-65-5 HCAPLUS

CN Tetradeca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-  
tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

PAGE 1-A

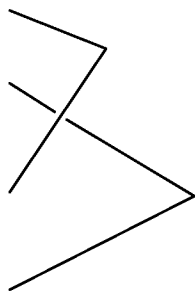


PAGE 1-B





PAGE 1-C

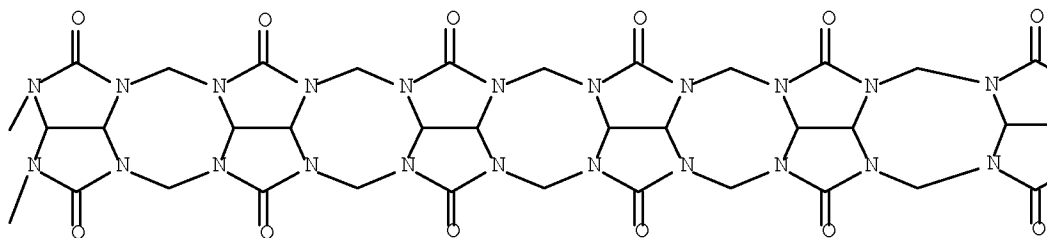


RN 847977-66-6 HCAPLUS  
CN Pentadeca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-  
tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

PAGE 1-A

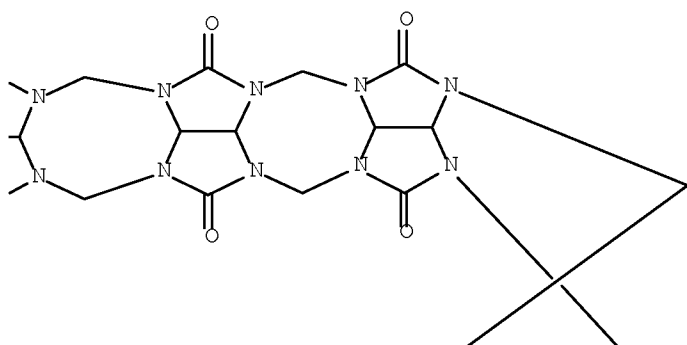


PAGE 1-B



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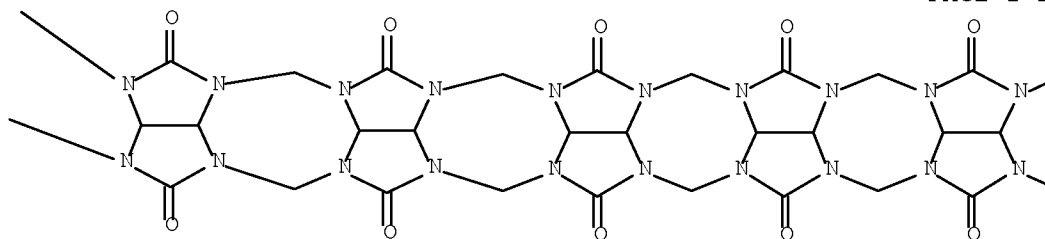
PAGE 1-C



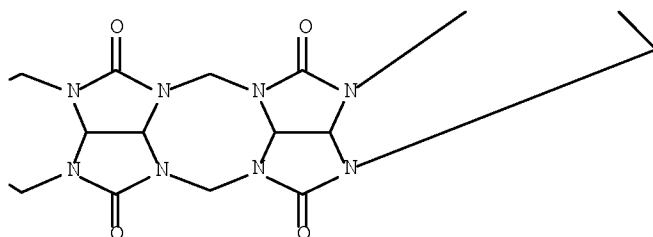
PAGE 2-A



PAGE 2-B



PAGE 2-C

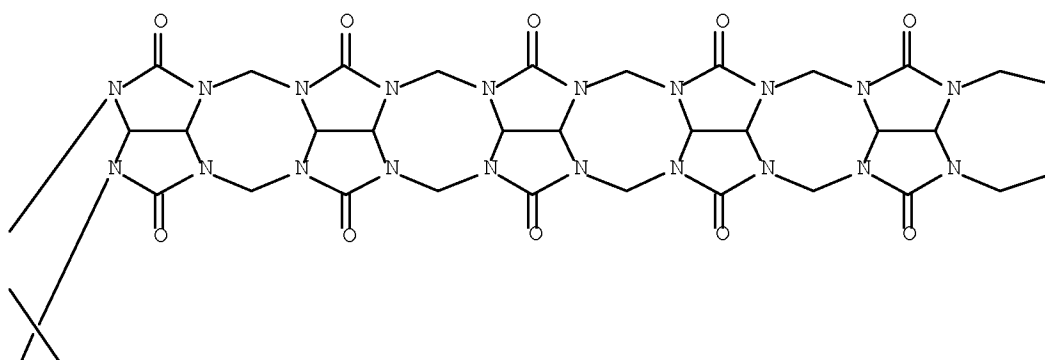


RN 847977-67-7 HCAPLUS  
 CN Hexadeca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-  
 tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

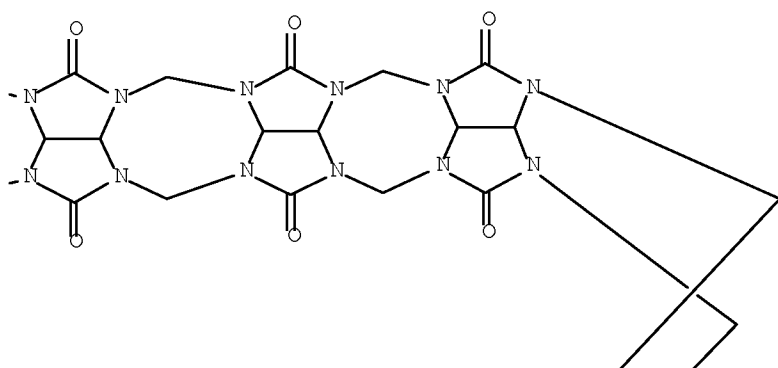
PAGE 1-A

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PAGE 1-B



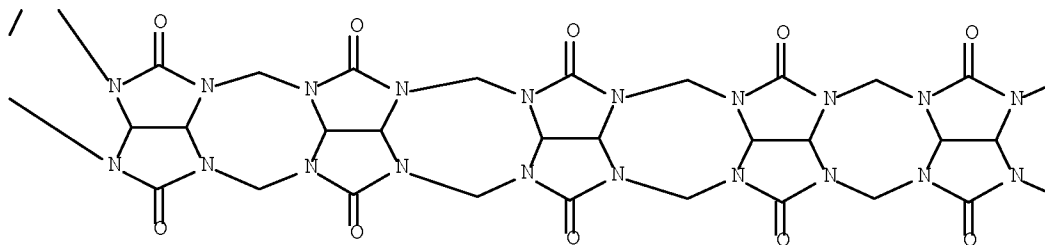
PAGE 1-C



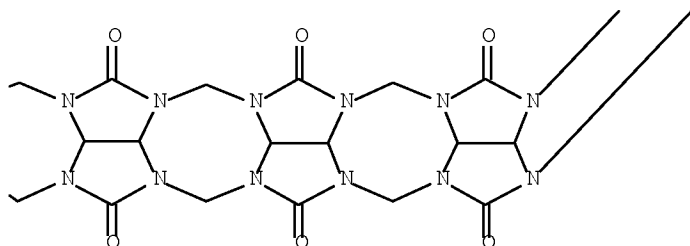
PAGE 2-A

&lt;

PAGE 2-B



PAGE 2-C



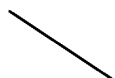
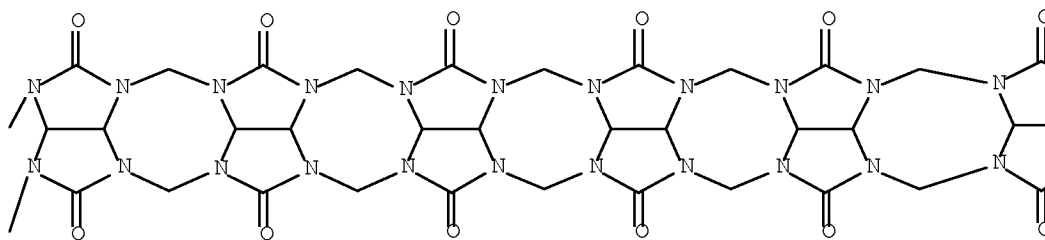
RN 847977-68-8 HCAPLUS

CN Heptadeca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

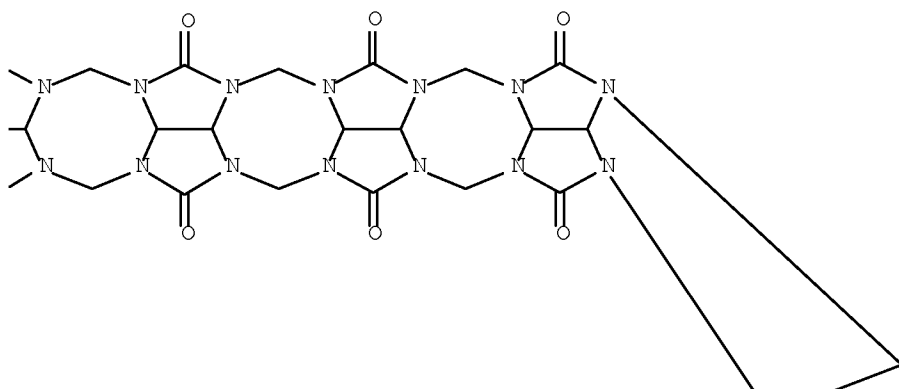
PAGE 1-A



PAGE 1-B



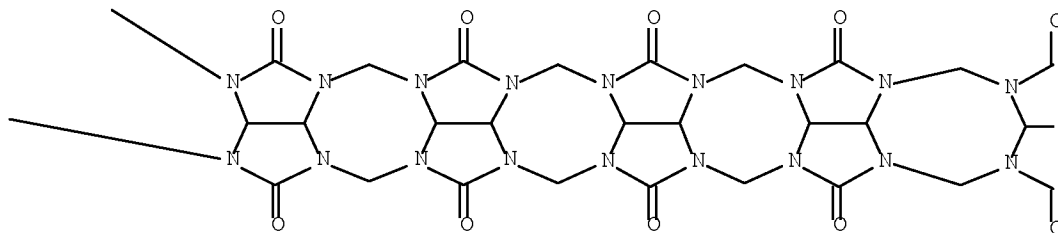
PAGE 1-C



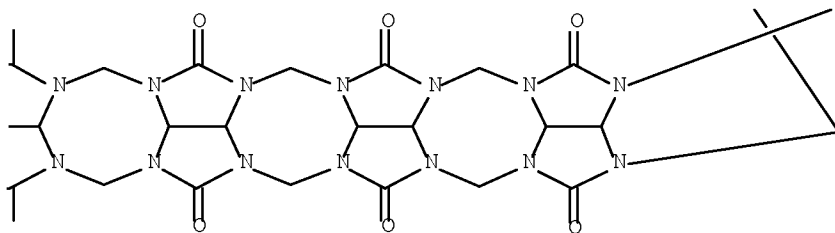
PAGE 2-A



PAGE 2-B

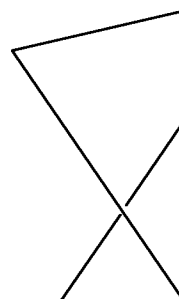


PAGE 2-C

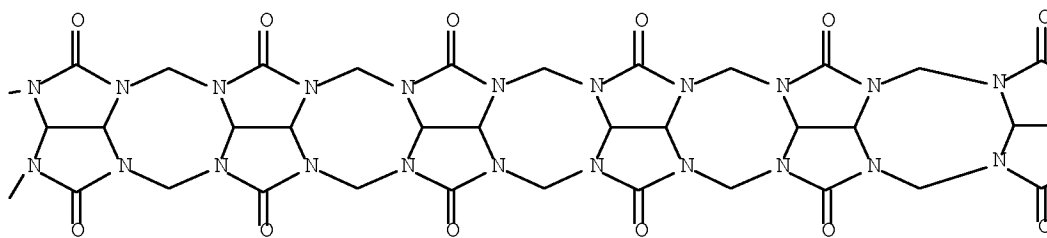


RN 847977-69-9 HCAPLUS  
 CN Octadeca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

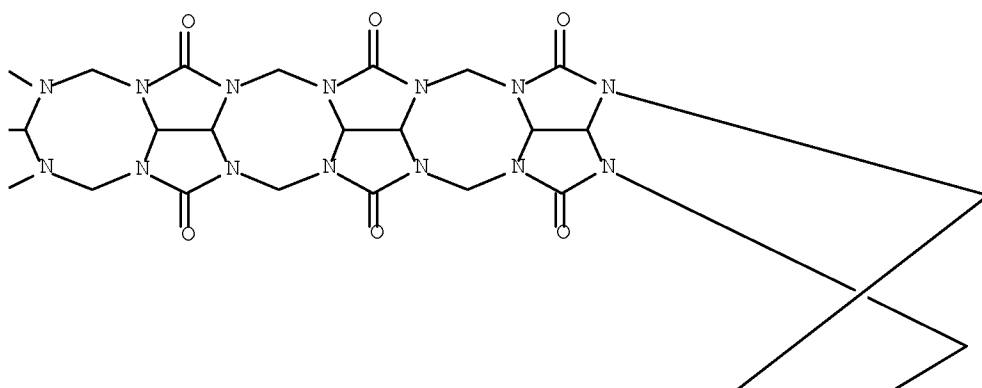
PAGE 1-A



PAGE 1-B



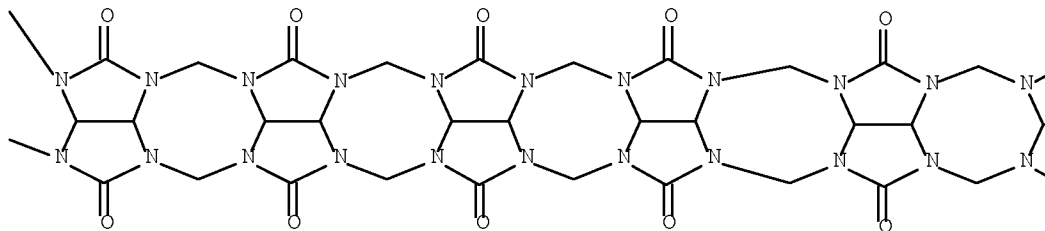
PAGE 1-C



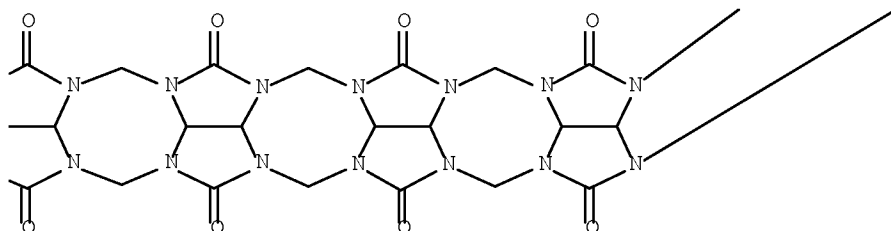
PAGE 2-A



PAGE 2-B



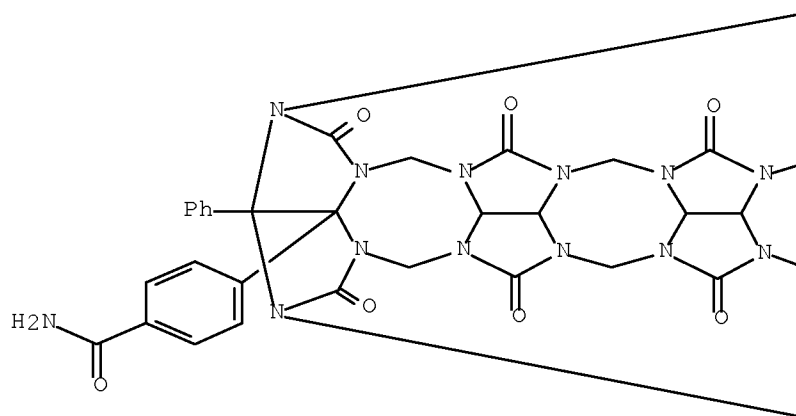
PAGE 2-C



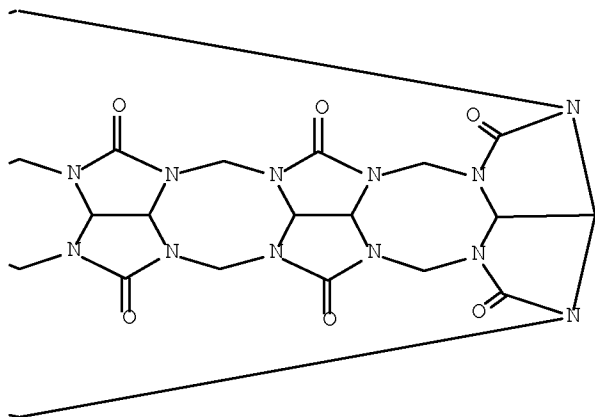
RN 847977-87-1 HCAPLUS

CN Benzamide, 4-(decahydro-1,4,6,8,10,12,14,17,19,21,23,25-dodecaoxo-26b-phenyl-1H,4H,14H,17H-2,16:3,15-dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalen-2a(26bH)-yl)-, stereoisomer (9CI) (CA INDEX NAME)

PAGE 1-A



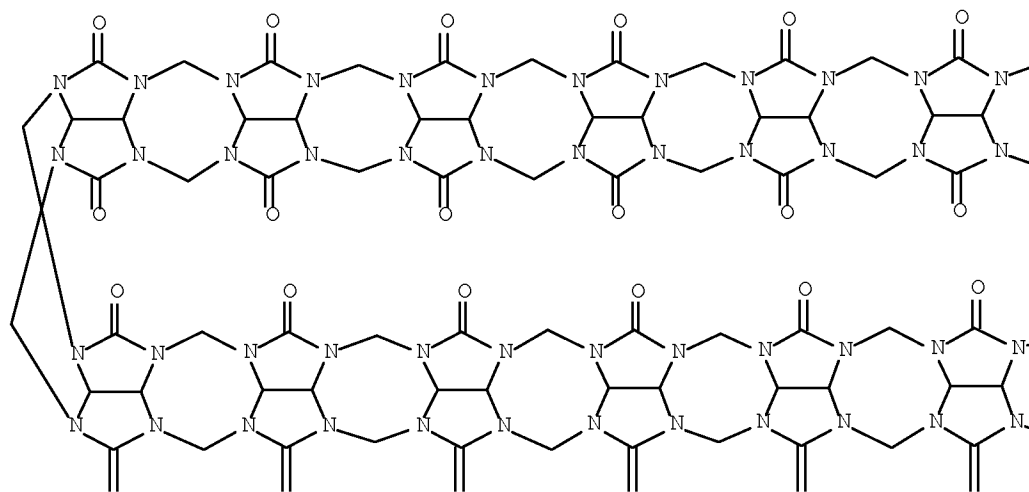
PAGE 1-B



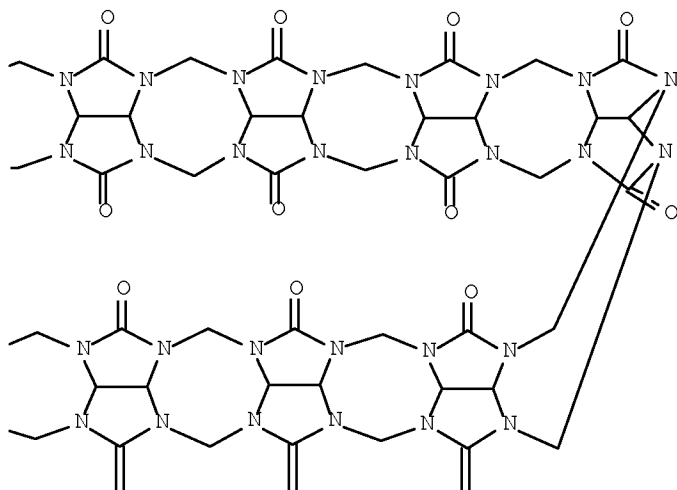
RN 847997-42-6 HCAPLUS

CN Nonadeca[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



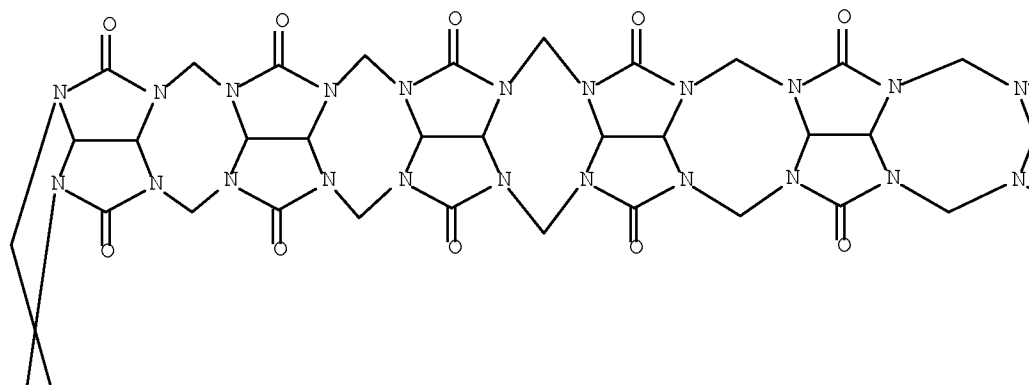
PAGE 2-A



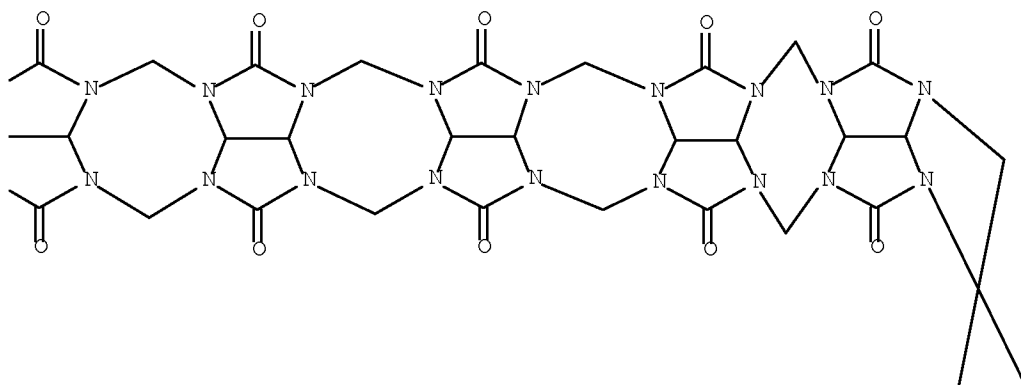
PAGE 2-B

RN 847997-67-5 HCAPLUS  
 CN Eicosa[(cis-dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-  
 tetrayl)-4,6-bis(methylene)] (CA INDEX NAME)

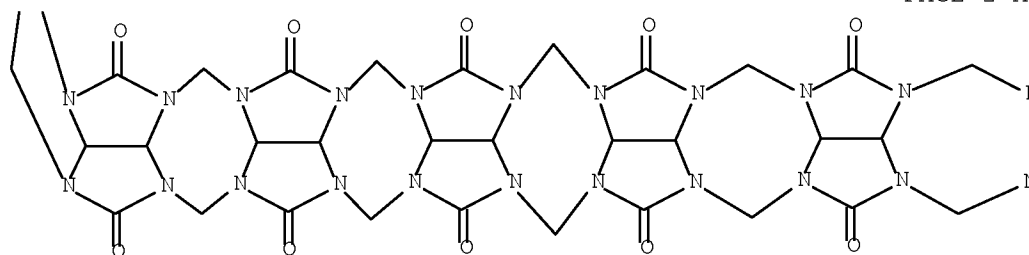
PAGE 1-A

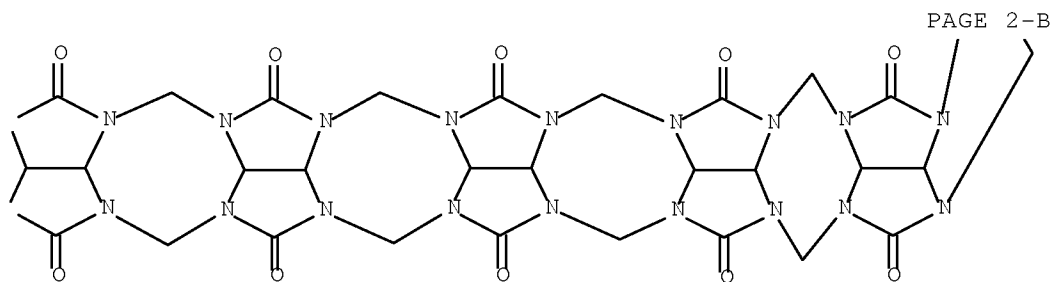


PAGE 1-B



PAGE 2-A



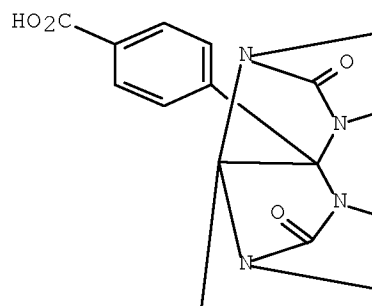


RN 848088-96-0 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2a, 26b-(Methaniminomethano)-2, 16:3, 15-dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,  
 28, 28', 28''-(1, 3, 5-triazine-2, 4, 6-triyl)tris[decahydro-, stereoisomer  
 (9CI) (CA INDEX NAME)

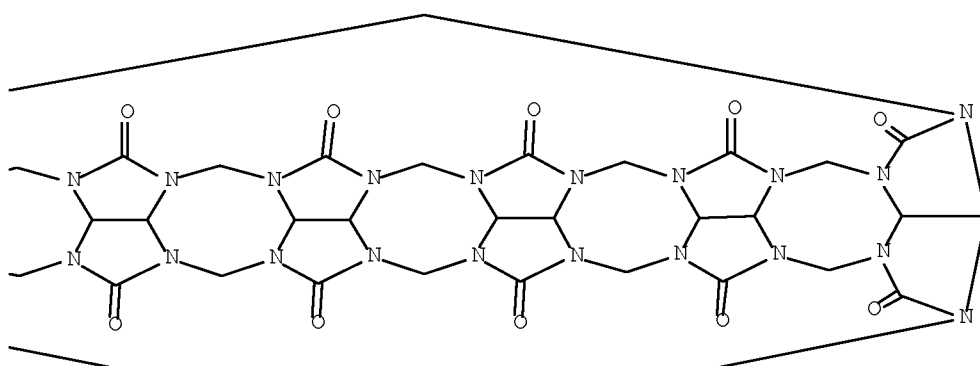
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 1021182-64-8 HCAPLUS  
 CN Benzoic acid, 4, 4'-[(decahydro-1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecaoxo-  
 1H, 4H, 14H, 17H-2, 16:3, 15-dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-2a, 26b-diyl)bis[4, 1-  
 phenylene(decahydro-1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecaoxo-  
 1H, 4H, 14H, 17H-2, 16:3, 15-dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-26b, 2a-diyl)]bis- (CA  
 INDEX NAME)

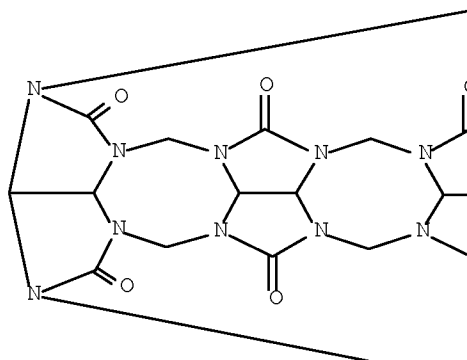
PAGE 1-B



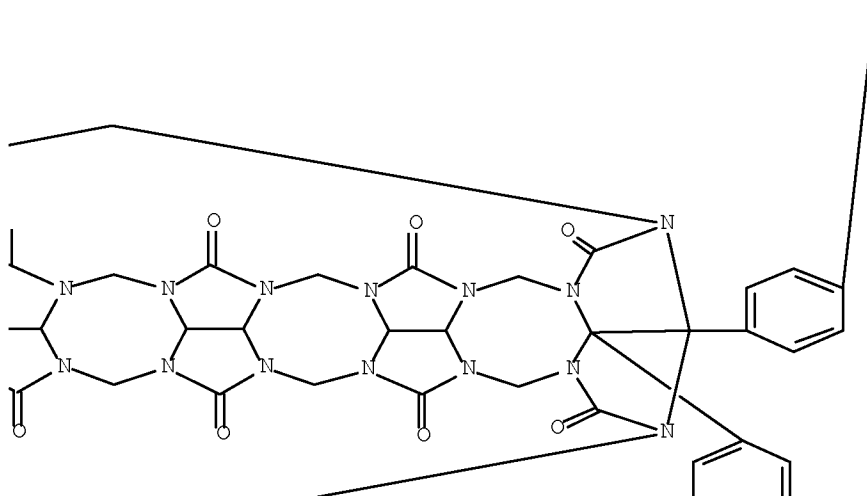
PAGE 1-C



PAGE 2-A



PAGE 2-B



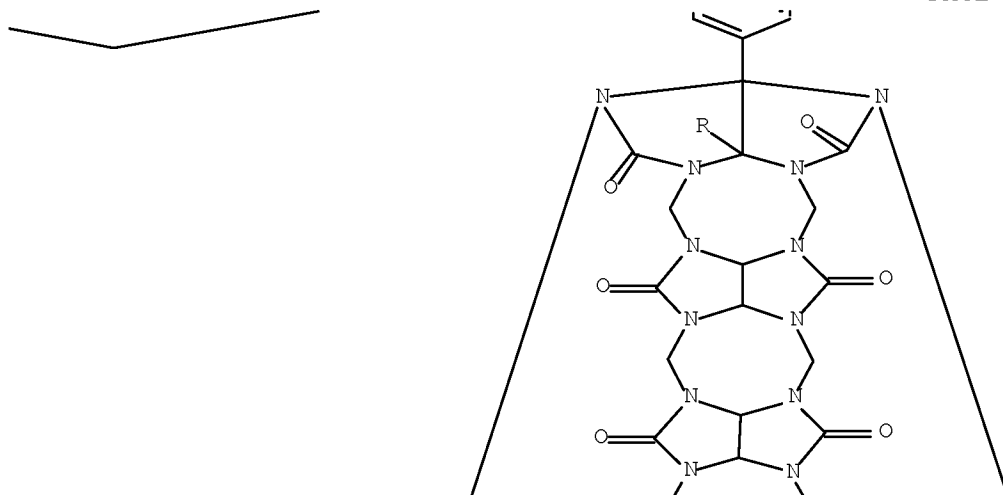
PAGE 2-C



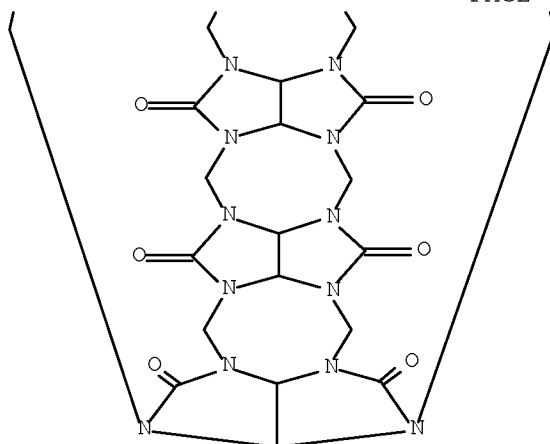
PAGE 3-A



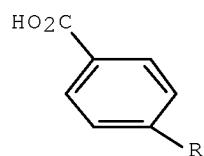
PAGE 3-B



PAGE 4-B



PAGE 5-A



RN 1021182-65-9 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24



a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone, 2a,26b:2'a,26'b:2''a,26''b-(1,12,4,5,8,9-triphenylenehexayl)tris[decahydro-, stereoisomer (CA INDEX NAME)]

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 847977-83-7F

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

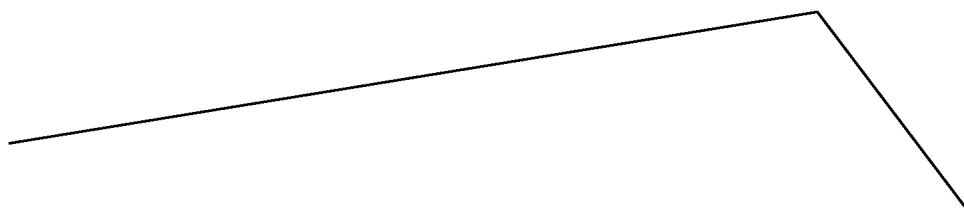
(preparation, N-cyanation and trimerization of; preparation of cucurbituril assemblies and polyamine affinity pairs)

RN 847977-83-7 HCAPLUS

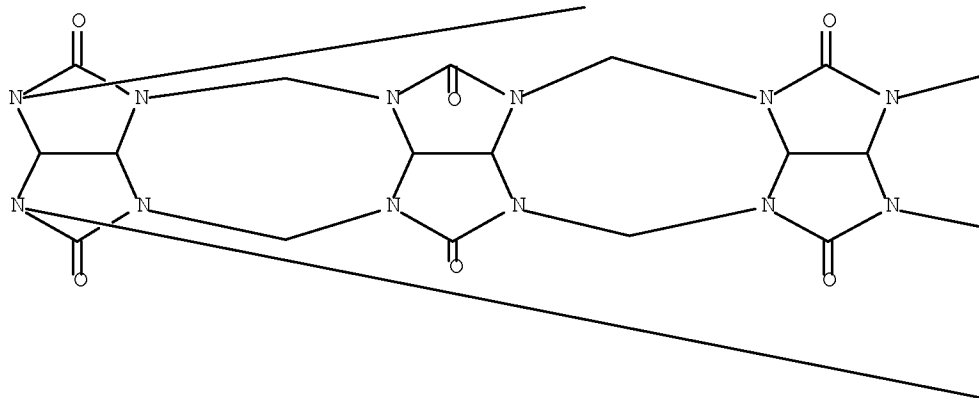
CN 1H,4H,14H,17H-2a,26b-(Methaniminomethano)-2,16:3,15-dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone, decahydro-, stereoisomer (9CI) (CA INDEX NAME)

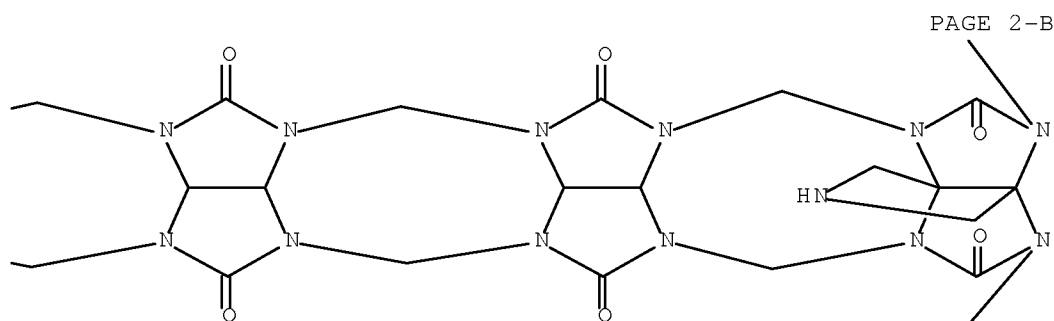
PAGE 1-A

PAGE 1-B



PAGE 2-A





IT 847977-82-6D, probe-bound amide  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with protein bound polyamine; preparation of cucurbituril  
 assemblies and polyamine affinity pairs)

RN 847977-82-6 HCAPLUS

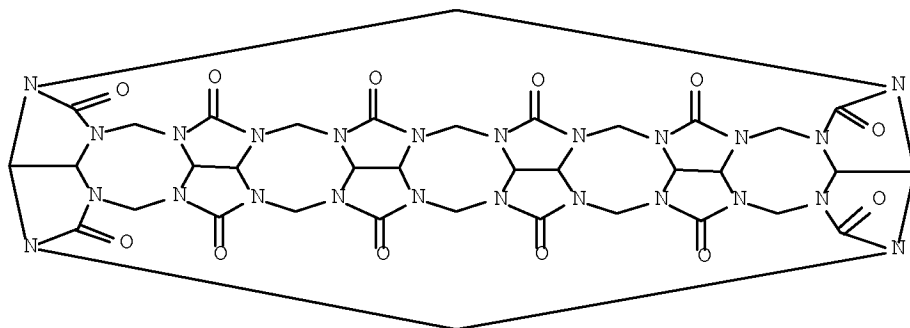
CN Pentanamide, 5-[[[4,6-bis(decahydro-1,4,6,8,10,12,14,17,19,21,23,25-  
 dodecaoxo-1H,4H,14H,17H-2a,26b-(methaniminomethano)-2,16:3,15-dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazaabispentaleno[1''',6'''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalen-28-yl)-1,3,5-triazin-2-  
 yl]amino]-, stereoisomer (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 11 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:158568 HCAPLUS Full-text  
 DN 142:236090  
 TI Molecular probe and material based on 1-phenyl-1-propyne for the detection  
 of an analyte  
 IN Wessig, Pablo; Schedler, Uwe  
 PA Germany  
 SO PCT Int. Appl., 31 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005016398	A2	20050224	WO 2004-EP8781	20040805 <--
	WO 2005016398	A3	20050428		
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	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
	TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
	EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,				
	SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				
	SN, TD, TG				
	DE 10337668	A1	20050303	DE 2003-10337668	20030808 <--
	EP 1651959	A2	20060503	EP 2004-763822	20040805 <--
	EP 1651959	B1	20080312		
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
	IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	AT 389176	T	20080315	AT 2004-763822	20040805 <--
PRAI	DE 2003-10337668	A	20030808	<--	
	WO 2004-EP8781	W	20040805	<--	
AB	The invention relates to a mol. probe (MS) for detecting an analyte (AN), comprising: a basic structure (GS); at least two groups of detectors (D1, D2) that are directly or indirectly bound to the basic structure (GS) and can simultaneously interact with the analyte (AN); at least two groups of signals (S1, S2) which are directly or indirectly bound to the basic structure (GS); at least one signaling conformation of the mol. probe (MS), in which the groups of signals (S1, S2) interact with each other in such a way that a detectable signal is generated; and at least one mute conformation in which the detectable signal is not generated. The inventive probe combines the functions required for detecting an analyte, i.e. detection, signal transduction, and signal generation, and can be easily adapted to different detection problems as a result of the modular structure thereof.				
IT	80262-44-8, Cucurbituril				
	RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (mol. probe and material based on 1-phenyl-1-propyne for detection of an analyte)				
RN	80262-44-8 HCAPLUS				
CN	1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24a, 25a, 26a-tetracosazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2'', 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)				



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 12 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:99542 HCAPLUS Full-text

DN 142:177710

TI Cucurbituril-containing polymer and monolithic column and stationary phase  
 of column chromatography prepared thereby

IN Kim, Kimoon; Oh, Dong-Hyun; Nagarajan, Erumaipatty Rajagounder; Ko,  
 Young-Ho; Samal, Shashadhar

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DT Patent

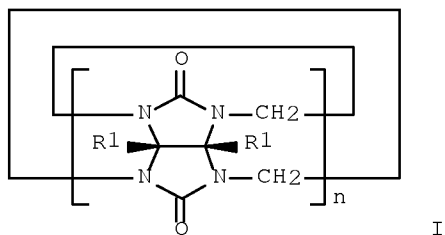
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	WO 2005010058	A1	20050203	WO 2004-KR1845	20040724 <--	
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	RW:			BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	KR 2005013018	A	20050202	KR 2003-51840	20030726 <--	
	EP 1651685	A1	20060503	EP 2004-774186	20040724 <--	
	EP 1651685	B1	20081217			
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK		
	JP 2007500763	T	20070118	JP 2006-521782	20040724 <--	
	AT 417865	T	20090115	AT 2004-774186	20040724 <--	
	US 20060201862	A1	20060914	US 2006-565908	20060125 <--	
	US 7520982	B2	20090421			
PRAI	KR 2003-51840	A	20030726	<--		
	WO 2004-KR1845	W	20040724	<--		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

GI



AB A cucurbituril-containing polymer, in which a particle-type polymer with a reactive end-substituted group is linked to a cucurbituril derivs. (I) (n= 4-20 integer, R1 = C2-20 alkenyloxy group with unsatd. end bond, C2-20 carboxyalkylsulfanyloxy group, C2-8 carboxyalkyloxy group, C1-8 aminoalkyloxy, C1-8 hydroxyalkyloxy group, or C2-8 epoxyalkyloxy group) by a covalent bond. A stationary phase for column chromatog. and a monolithic column using the above polymer is also provided. Thus, a chlorine-containing Merrifield polymer was reacted with a cucurbituril derivative (I) with n = 6 and R1 = 2-hydroxyethyloxy group in the presence of potassium carbonate to receive a polymer particle.

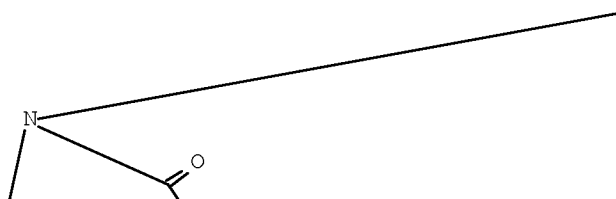
IT 558445-90-2P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (cucurbituril-containing polymer for monolithic column and stationary phase of column chromatog.)

RN 558445-90-2 HCAPLUS

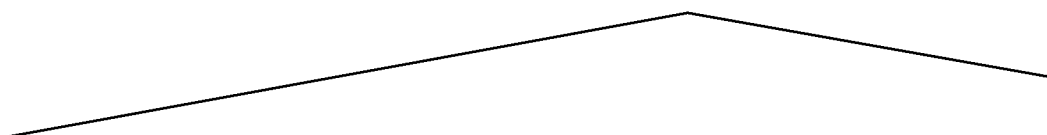
CN 1H,4H,14H,17H-2,16:3,15-Dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-propen-1-yloxy)-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

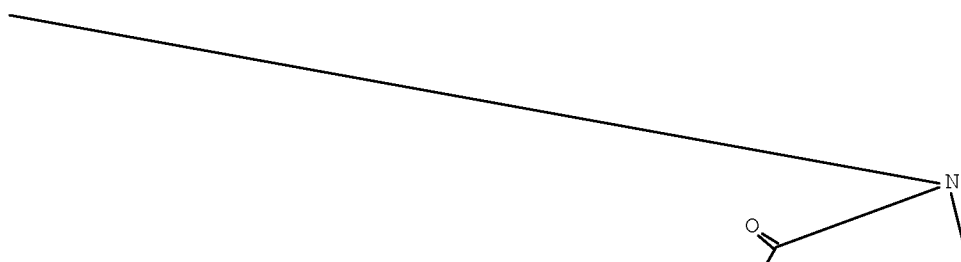
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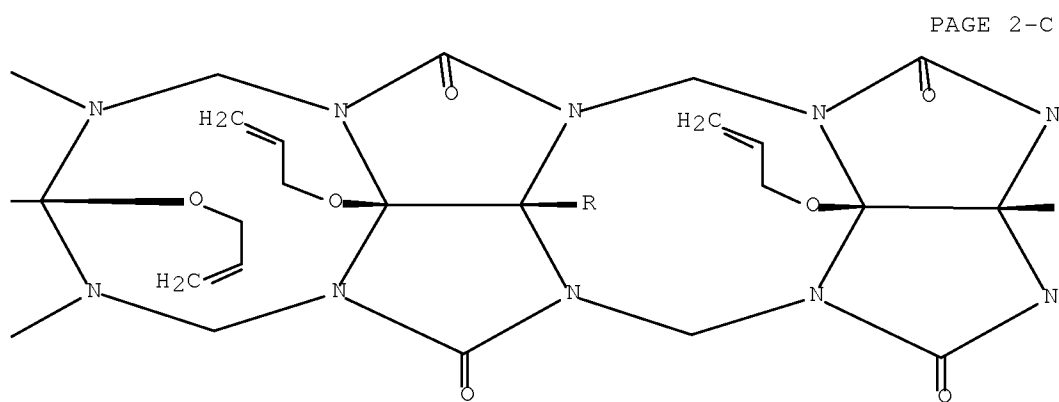
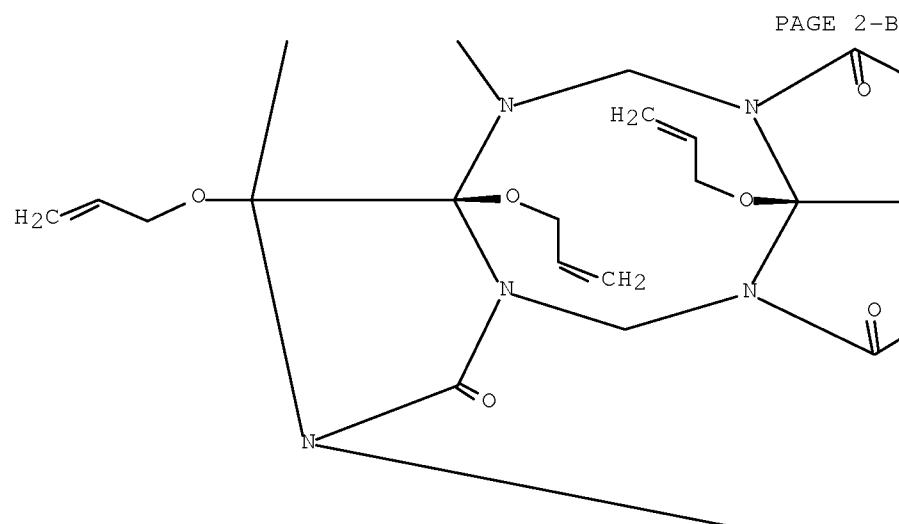


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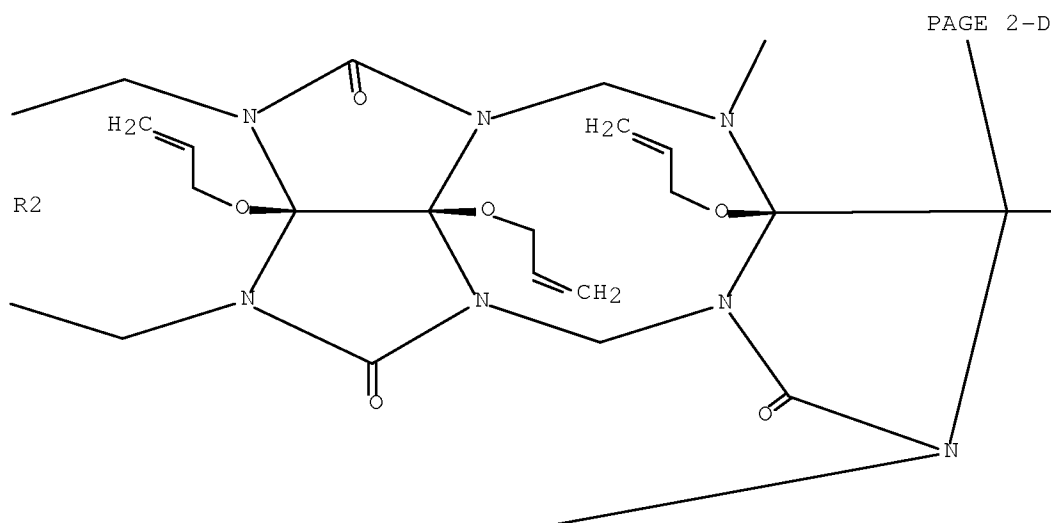


PAGE 1-D

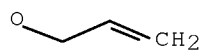




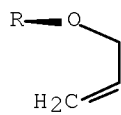




PAGE 2-E



PAGE 3-A

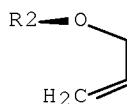


PAGE 3-B

PAGE 3-C

PAGE 3-D

PAGE 4-A



IT 558446-01-8DP, reaction products with chlorine-containing polymer particles 832153-09-0DP, reaction products with silica gel 832153-10-3DP, polymers with cucurbituril derivs., reaction products with aminopropylated silica gel 832153-11-4P  
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (cucurbituril-containing polymer for monolithic column and stationary phase of column chromatog.)  
 RN 558446-01-8 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2'', 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecakis(2-hydroxyethoxy)-, stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

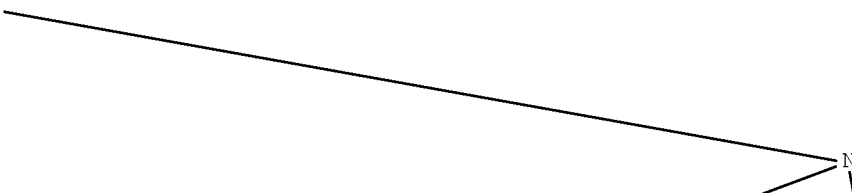
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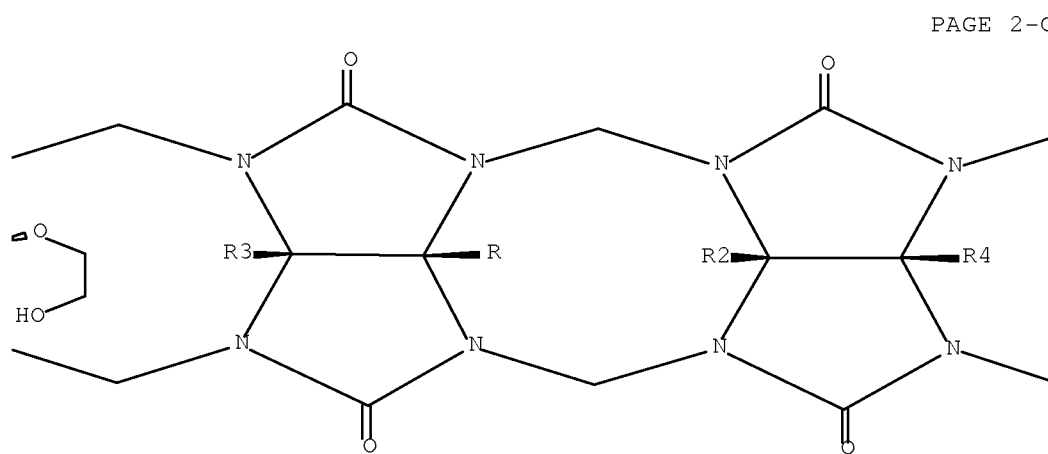
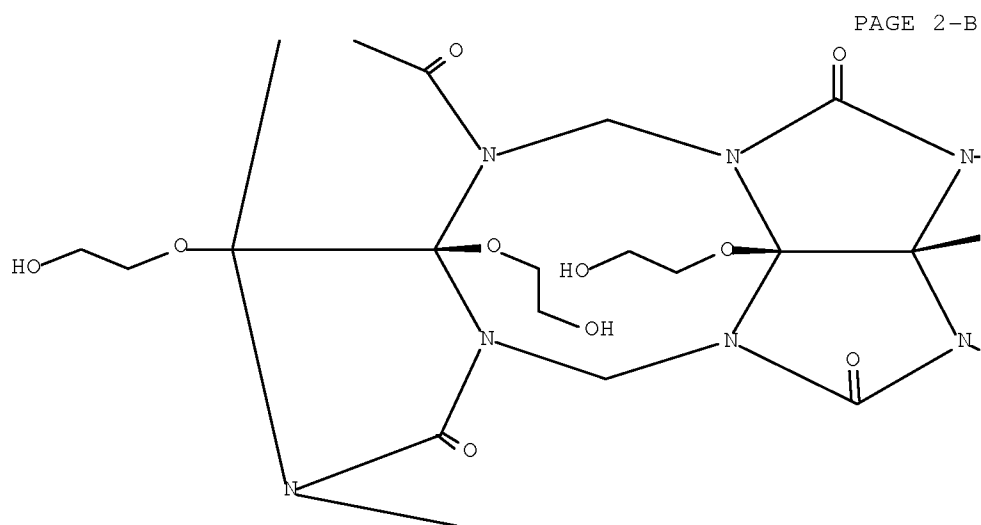


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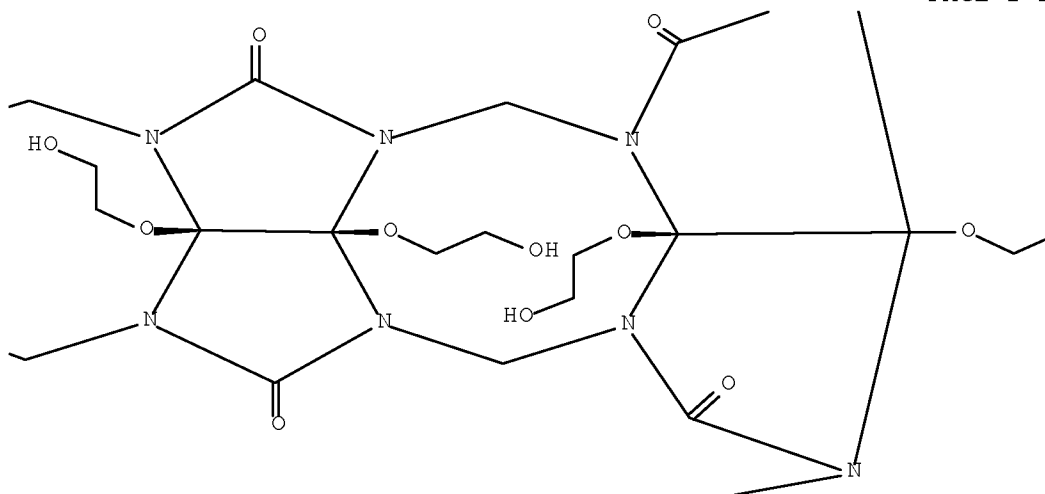


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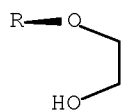
PAGE 2-D



PAGE 2-E



PAGE 3-A

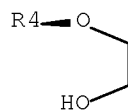
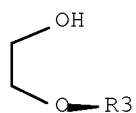
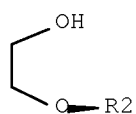


PAGE 3-B

PAGE 3-C

PAGE 3-D

PAGE 4-A



RN 832153-09-0 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,

dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-propenyloxy)-, stereoisomer, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

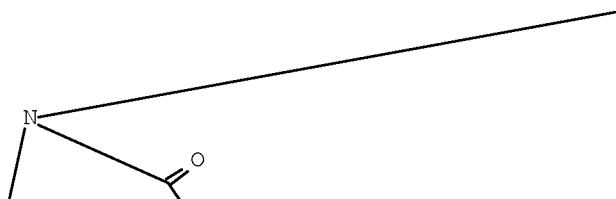
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CRN 558445-90-2

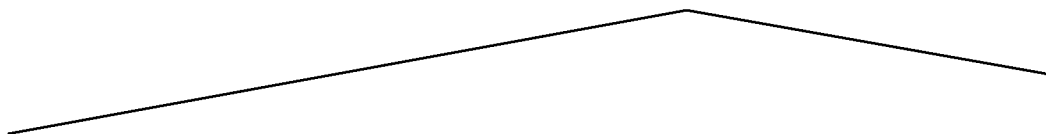
CMF C72 H84 N24 O24

Relative stereochemistry.

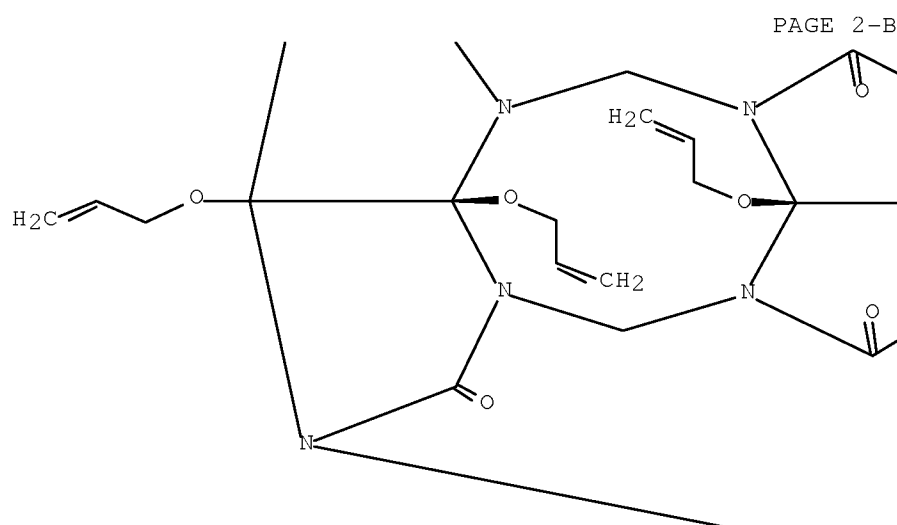
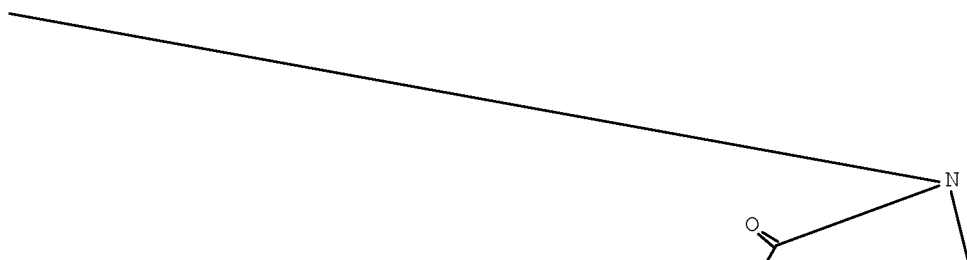
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PAGE 1-C

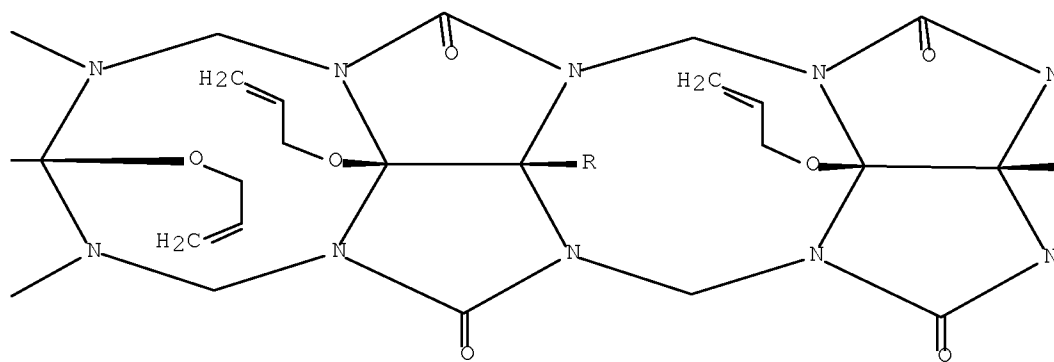


PAGE 1-D

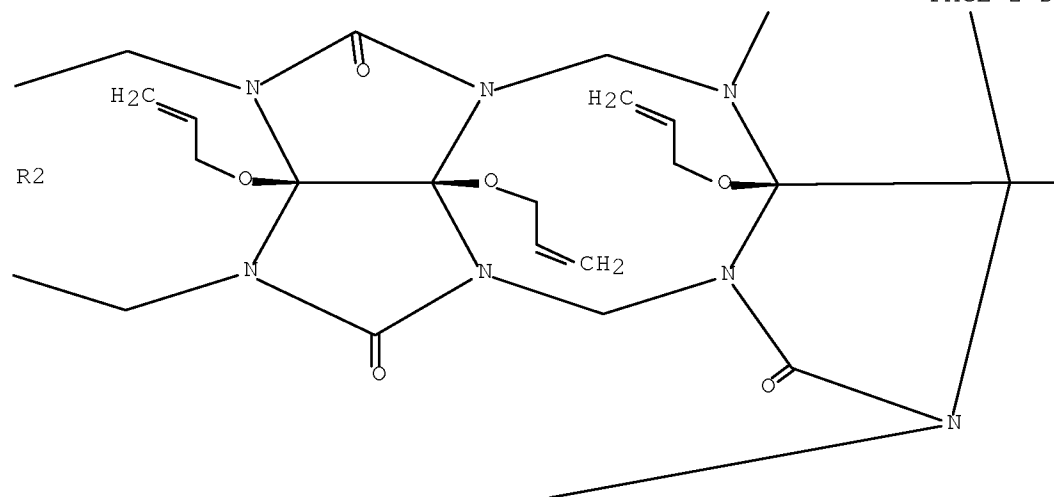




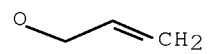
PAGE 2-C



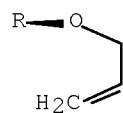
PAGE 2-D



PAGE 2-E



PAGE 3-A

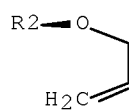


PAGE 3-B

PAGE 3-C

PAGE 3-D

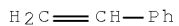
PAGE 4-A



CM 2

CRN 100-42-5

CMF C8 H8



RN 832153-10-3 HCAPLUS

CN 2-Propenoic acid, polymer with stereoisomer of  
 dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-  
 propenyloxy)-1H,4H,14H,17H-2,16:3,15-dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone (9CI) (CA INDEX NAME)

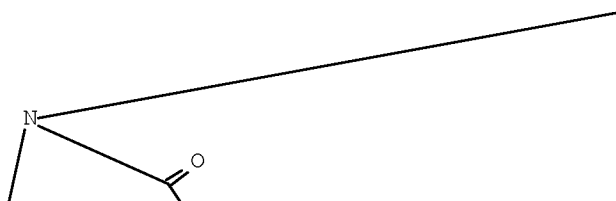
CM 1

CRN 558445-90-2

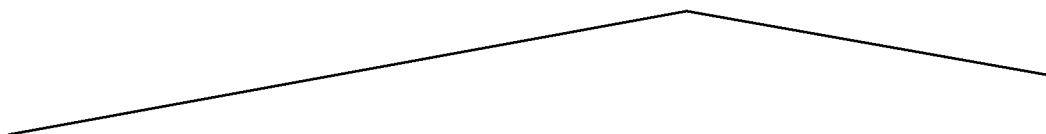
CMF C72 H84 N24 O24

Relative stereochemistry.

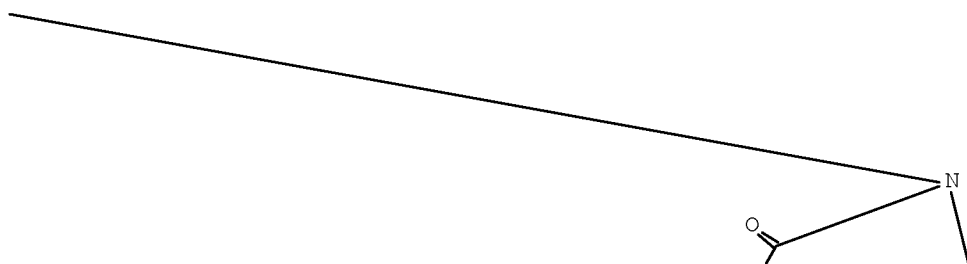
PAGE 1-B



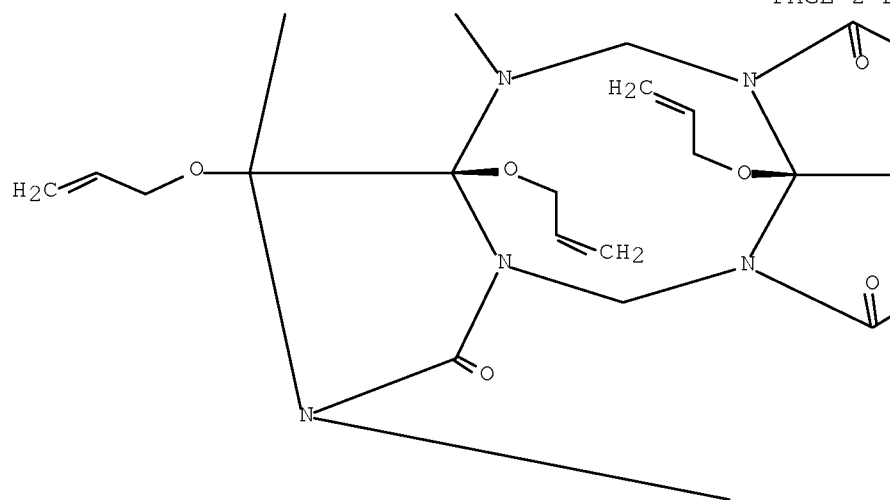
PAGE 1-C



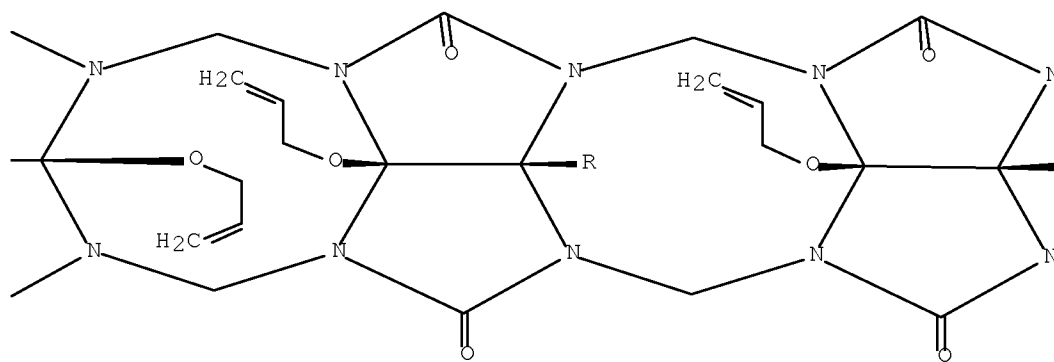
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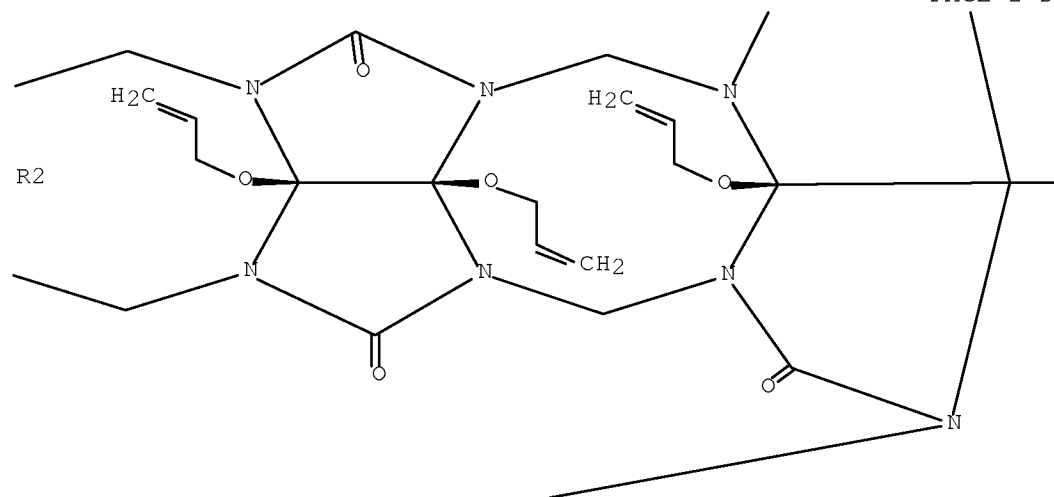
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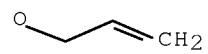
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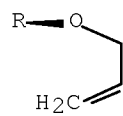
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PAGE 2-E



PAGE 3-A

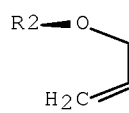


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PAGE 3-C

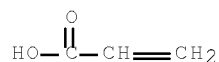
PAGE 3-D

PAGE 4-A



CM 2

CRN 79-10-7  
CMF C3 H4 O2



RN 832153-11-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester, polymer with 1,4-bis(1-oxo-2-propenyl)piperazine, 2-propenamide and stereoisomer of dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-propenyloxy)-1H,4H,14H,17H-2,16:3,15-dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone (9CI) (CA INDEX NAME)

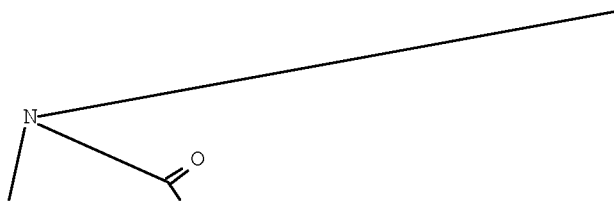
CM 1

CRN 558445-90-2

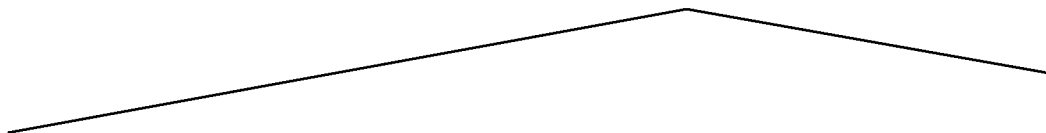
CMF C72 H84 N24 O24

Relative stereochemistry.

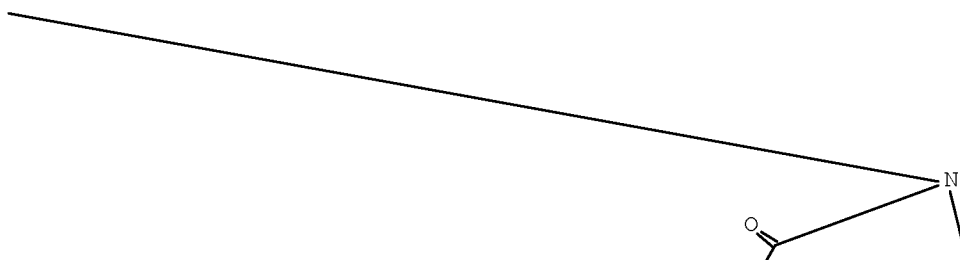
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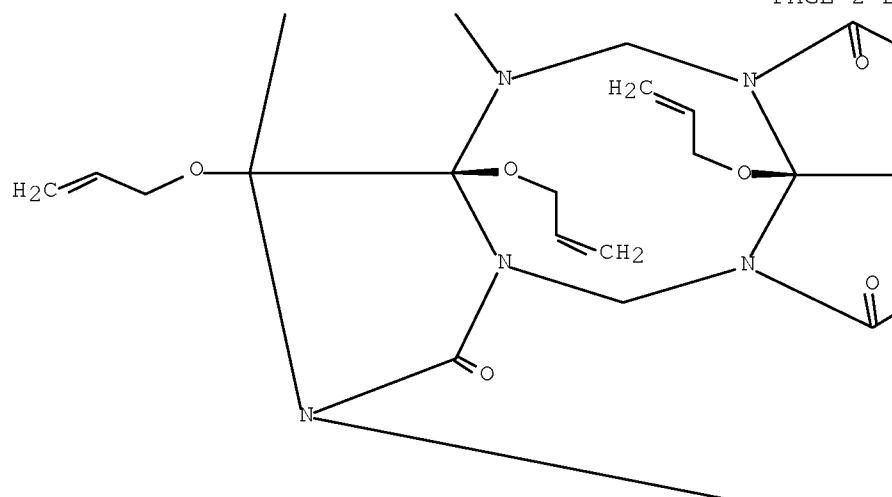
PAGE 1-C



PAGE 1-D

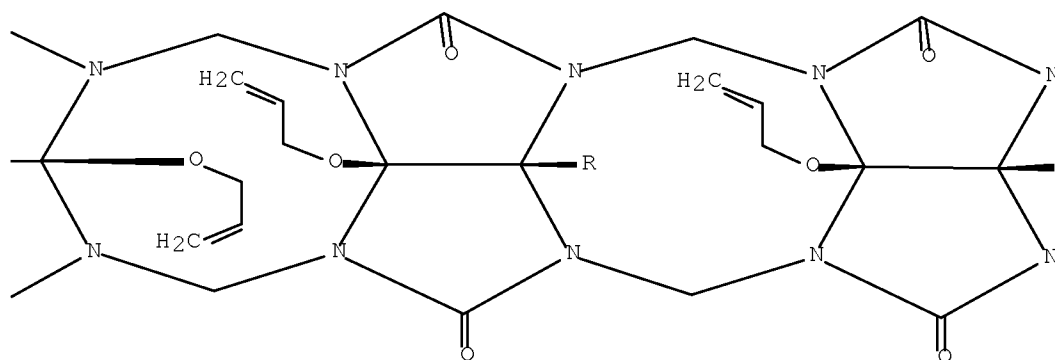


PAGE 2-B

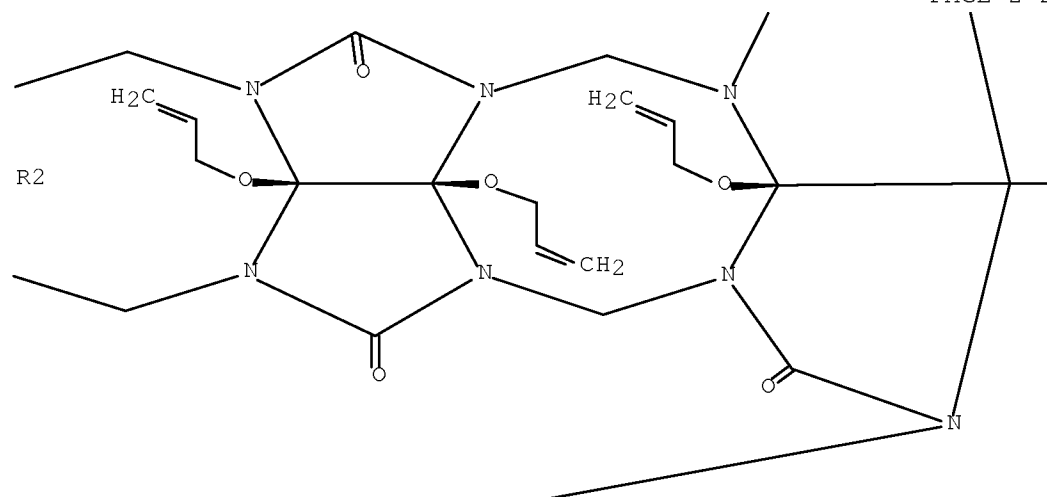




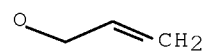
PAGE 2-C



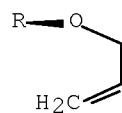
PAGE 2-D



PAGE 2-E



PAGE 3-A

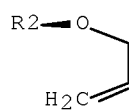


PAGE 3-B

PAGE 3-C

PAGE 3-D

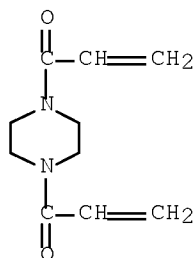
PAGE 4-A



CM 2

CRN 6342-17-2

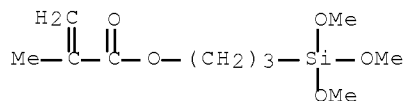
CMF C10 H14 N2 O2



CM 3

CRN 2530-85-0

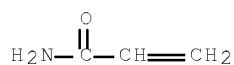
CMF C10 H20 O5 Si



CM 4

CRN 79-06-1

CMF C3 H5 N O



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 13 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:99504 HCAPLUS Full-text

DN 142:183488

TI Nanoparticles comprising cucurbituril derivatives

IN Kim, Kimoon; Jon, Sang-Yong; Jeon, Young-Jin; Oh, Dong-Hyun; Selvapalam, Narayanan

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005010004	A1	20050203	WO 2004-KR1874	20040726 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,  
 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK,  
 LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO,  
 NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

KR 2005013019 A 20050202 KR 2003-51841 20030726 <--  
 EP 1651651 A1 20060503 EP 2004-774205 20040726 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 JP 2007500185 T 20070111 JP 2006-521785 20040726 <--  
 US 20060251725 A1 20061109 US 2006-565834 20060125 <--  
 US 20080279950 A1 20081113 US 2008-175980 20080718 <--  
 PRAI KR 2003-51841 A 20030726 <--  
 WO 2004-KR1874 W 20040726 <--  
 US 2006-565834 A3 20060125

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 142:183488

AB Provided are nanoparticles prepared by the aggregation of cucurbituril derivs.  
 and having a particle size of 1 to 1000 nm, a pharmaceutical composition in  
 which a pharmaceutically active substance is loaded into the nanoparticles,  
 and preparation methods thereof. Nanoparticles were prepared from  
 octanesulfanypropyloxycucurbit[12]uril, poly(lactic acid) and hydrocortisone.

IT 834918-58-00, octylsulfanypropoxy derivs.  
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP  
 (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC  
 (Process); USES (Uses)  
 (nanoparticles comprising cucurbituril derivs.)

RN 834918-58-0 HCAPLUS

CN Dodeca[(dihydro-2,5-dioxoimidazo[4,5-d]imidazole-1,3:4,6(2H,5H)-tetrayl)-  
 4,6-bis(methylene)] (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 14 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:34927 HCAPLUS Full-text

DN 142:110030

TI Cucurbituril derivative-bonded solid substrate and biochip using the same

IN Kim, Kimoon; Kang, Jin-Koo; Jeon, Woo-Seong; Jon, Sang-Yong; Narayanan,  
 Selvapalam; Oh, Dong-Hyun

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 31 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005003391	A1	20050113	WO 2004-KR1652	20040705 <--
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	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK,				
	LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO,				

NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,  
 TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW  
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,  
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,  
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

KR 2005005582 A 20050114 KR 2003-45523 20030705 <--  
 EP 1644527 A1 20060412 EP 2004-774078 20040705 <--  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK  
 JP 2007521487 T 20070802 JP 2006-518542 20040705 <--  
 US 20060160207 A1 20060720 US 2006-563463 20060105 <--  
 PRAI KR 2003-45523 A 20030705 <--  
 WO 2004-KR1652 W 20040705 <--

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Provided is a cucurbituril derivative-bonded solid substrate in which a cucurbituril derivative is covalently bonded to a modified solid substrate. A protein chip, a gene chip, and a sensor for biomaterial assay using the cucurbituril derivative-bonded solid substrate are also provided.

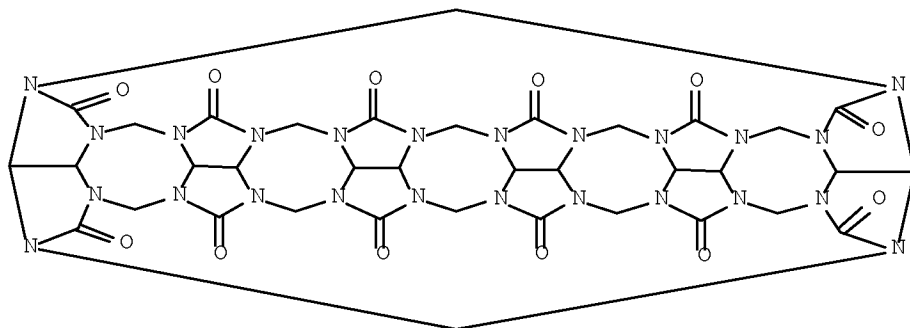
IT 80262-44-8D, Cucurbituril, derivs.

RL: DEV (Device component use); USES (Uses)

(cucurbituril derivative-bonded solid substrate and biochip using the same)

RN 80262-44-8 HCAPLUS

CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 15 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:29337 HCAPLUS Full-text

DN 142:110092

TI Rotaxane compound, rotaxane-bonded solid substrate, and biochip using the same

IN Kim, Kimoan; Kang, Jin-Koo; Jeon, Woo-Seong; Noh, Miran; Kim, Dongwoo

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005003136	A1	20050113	WO 2004-KR1651	20040705 <--
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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	EP 1644379	A1	20060412	EP 2004-774077	20040705 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	JP 2007521289	T	20070802	JP 2006-518541	20040705 <--
	US 20060154254	A1	20060713	US 2006-563477	20060105 <--
	US 7611888	B2	20091103		
PRAI	KR 2003-45522	A	20030705 <--		
	WO 2004-KR1651	W	20040705 <--		

## ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB Provided is a compound represented by Formula 1 in which a compound of Formula 3 vertically passes through a cavity of cucurbituril or its derivative of Formula 2. Provided are also a solid substrate bonded with the compound and a biochip including the solid substrate.

IT 283175-97-3, Cucurbit[6]uril

RL: RCT (Reactant); RACT (Reactant or reagent)

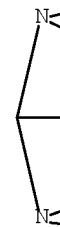
(rotaxane compound, rotaxane-bonded solid substrate, and biochip using thesame)

RN 283175-97-3 HCAPLUS

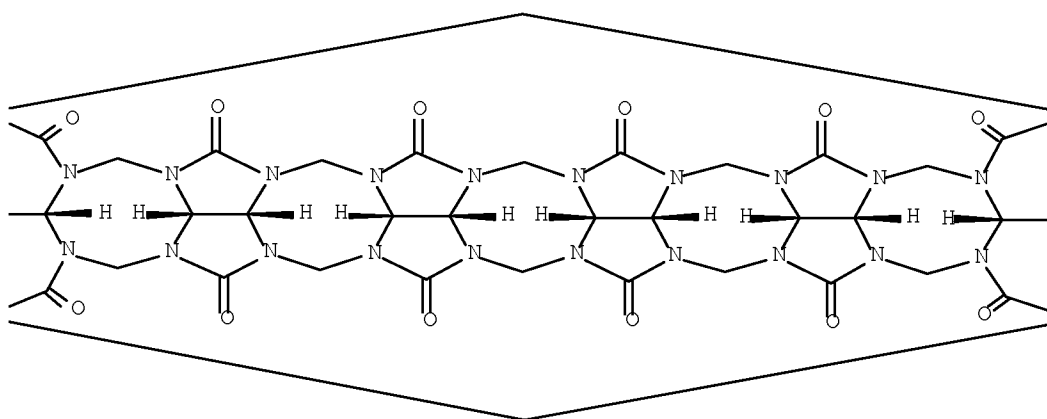
CN 1H,4H,14H,17H-2,16:3,15-Dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

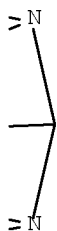
PAGE 1-A



PAGE 1-B



PAGE 1-C



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 16 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2004:905494 HCAPLUS Full-text  
 DN 141:328101  
 TI Rapid sequencing of liner polymers by formation of rotaxane  
 IN Bension, Rouvain  
 PA USA  
 SO U.S. Pat. Appl. Publ., 8 pp.  
 CODEN: USXXCO  
 DT Patent  
 LA English  
 FAN.CNT 1

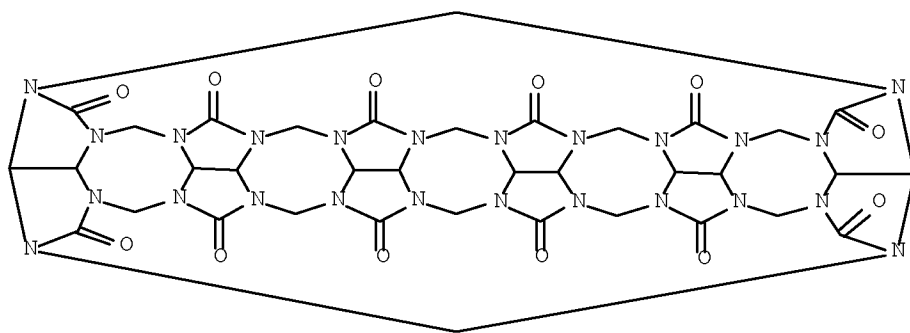
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20040214177	A1	20041028	US 2003-421343	20030423 <--
	US 7163658	B2	20070116		
PRAI	US 2003-421343		20030423	<--	

AB The invention provides a method and device for sequencing at least a fragment of a linear polymer. The device comprises a well for placement of a rotaxane comprising the combination of a cyclic mol. and a linear polymer threaded through said cyclic mol.; a probe having the ability to move the linear polymer relative to the cyclic mol. while producing a signal resulting from the interaction of the cyclic mol. and a unit attached to the polymer; and means for reading said signal. The process comprises formation of the rotaxane, attachment of the probe, movement of the cyclic mol. relative to the linear polymer and the reading of signals. The device and method are especially useful for the sequencing of DNA.

IT 80262-44-8, Cucurbituril  
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)  
 (rapid sequencing of liner polymers by formation of rotaxane)

RN 80262-44-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3''':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L45 ANSWER 17 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2004:701849 HCAPLUS Full-text  
 DN 141:207239



TI Preparation of cucurbituril-fullerene complex  
 IN Geckeler, Kurt E.; Constabel, F.  
 PA Kwangju Institute of Science and Technology, S. Korea  
 SO U.S. Pat. Appl. Publ., 5 pp.  
 CODEN: USXXCO

DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20040167328	A1	20040826	US 2003-667221	20030917 <--
	US 7122664	B2	20061017		
	KR 2004076302	A	20040901	KR 2003-11583	20030225 <--
	JP 2004256512	A	20040916	JP 2003-292738	20030813 <--
	DE 10350280	A1	20040916	DE 2003-10350280	20031028 <--
PRAI	KR 2003-11583	A	20030225	<--	

AB The present invention relates to a complex composed of cucurbituril and fullerene and a method for manufacturing the complex on a solid-phase. A complex in accordance with the present invention can be usefully used as a medicine delivery means in the field of pharmaceuticals. Thus, cucurbit[7]uril-[60]fullerene complex was produced by crushing a mixture of 20.1 mg (28+10<sup>-3</sup> mmol) [60]fullerene and 16.3 mg (14+10<sup>-3</sup> mmol) cucurbit[7]uril (CB[7]) in a chrome steel mixing crusher using chrome steel crushing balls with the speed of 20 rpm for 1 to 10 h. After washing-out the produced CB[7]-C60 fullerene complex with warm water, 2 M NaOH was added to the solution to control its pH to be 12, followed by adding 20 mL toluene to dissolve the remaining CB[7] and non-coupled [60]fullerene. After dissolving excessive initial compds. by agitation the mixture for 30 min, the complex was allowed to precipitate. The aqueous phase containing the insol. complex was frozen, so that the upper organic phase could be decanted. After leaving the aqueous-phase until it got back to room temperature, it was centrifuged at 0° with 5000 rpm for 10 min, and then water was poured out carefully. After washing the complex with pure water until its pH got to be neutral, the remained water was finally evaporated and the dark-brown complex was vacuum-dried to obtain the complex having the 1:2 weight ratio of cucurbit[7]uril to [60]fullerene (33% yield).

IT 259886-50-5, Cucurbit[7]uril

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)

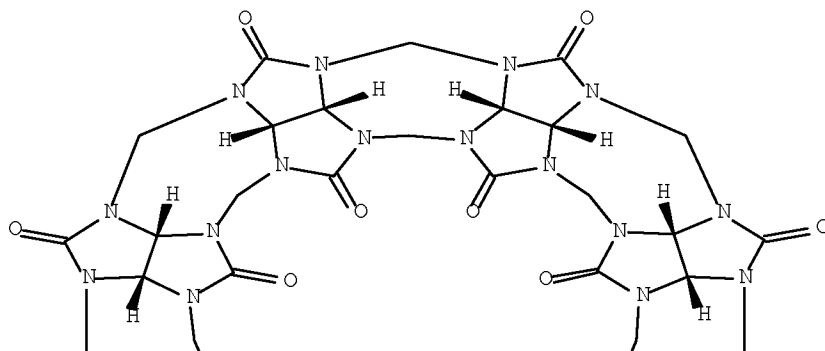
(preparation of cucurbituril-fullerene complex as pharmaceutical carrier)

RN 259886-50-5 HCAPLUS

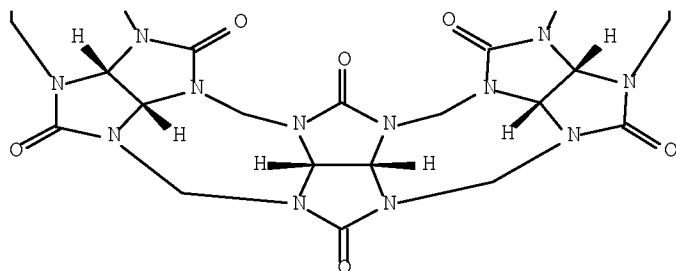
CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-octacosazabispentaleno[1''',6''':5''',6'',7'']cycloocta[1''',2''',3''':3''',4'']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



IT 742079-08-9P, Cucurbit[7]uril-fullerene complex  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of cucurbituril-fullerene complex as pharmaceutical carrier)

RN 742079-08-9 HCAPLUS

CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-octacosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'',3''':3'',4'']pentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-, stereoisomer, compd. with [5,6]fullerene-C60-1h (9CI) (CA INDEX NAME)

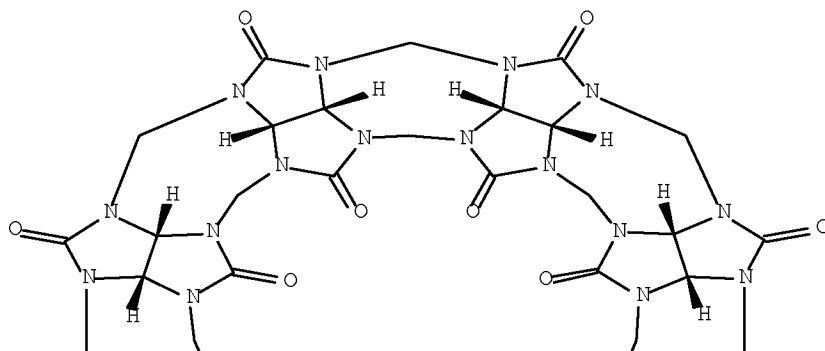
CM 1

CRN 259886-50-5

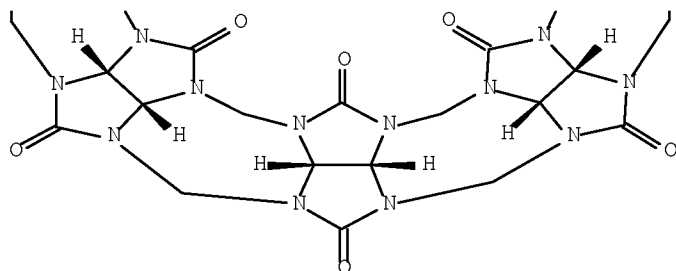
CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



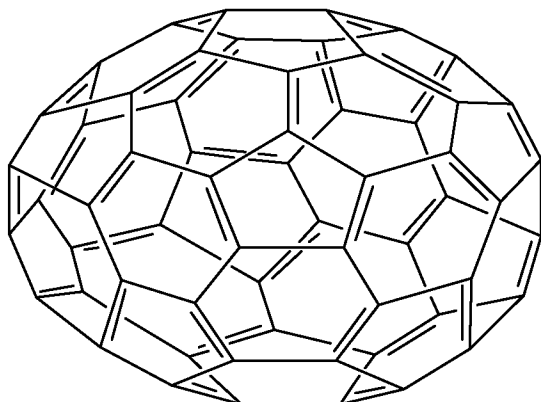
PAGE 2-A



CM 2

CRN 99685-96-8

CMF C60



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 18 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:696412 HCAPLUS Full-text

DN 141:207238

TI Silica gel bonded with cucurbiturils

IN Kim, Kimoon; Balaji, Rengarajan; Oh, Dong-hyun; Ko, Yong-ho; Jon, Sang-yong

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004072151	A1	20040826	WO 2004-KR272	20040211 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	KR 2004072810	A	20040819	KR 2003-8453	20030211 <--
	AU 2004212090	A1	20040826	AU 2004-212090	20040211 <--
	AU 2004212090	B2	20070920		
	EP 1594912	A1	20051116	EP 2004-710118	20040211 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	CN 1747986	A	20060315	CN 2004-80003985	20040211 <--
	CN 100410296	C	20080813		
	JP 2006521263	T	20060921	JP 2006-500645	20040211 <--
	US 20060207938	A1	20060921	US 2005-544850	20050808 <--
	US 7504029	B2	20090317		
PRAI	KR 2003-8453	A	20030211	<--	
	WO 2004-KR272	W	20040211	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB A cucurbituril-bonded silica gel and its use are provided. The cucurbituril-bonded silica gel useful for removal of air pollutants or water contaminants, and separation and purification of biol., organic, inorg., or ionic substances.

IT 80262-44-8, Cucurbituril

RL: NUU (Other use, unclassified); USES (Uses)

(cucurbituril bonded silica gel as sorbents and chromatog. stationary phases)

RN 80262-44-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-

5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-

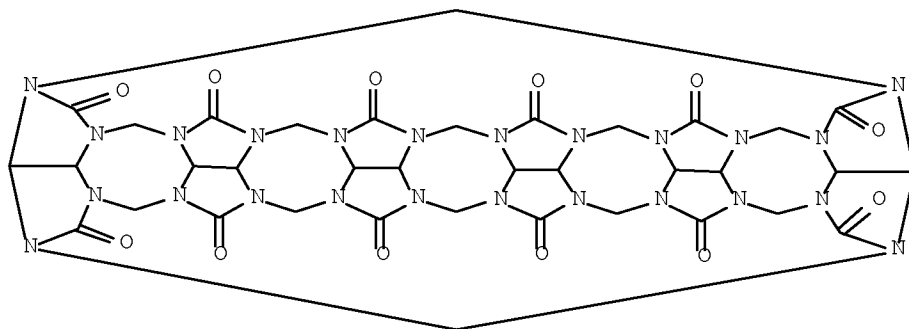
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a, 25a, 26a-tetracosazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2''

, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-

g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-

1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)



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IT      558460-05-2
        RL: RCT (Reactant); RACT (Reactant or reagent)
        (synthesis of silica gel linked with cucurbituril by amide bond)
RN      558460-05-2  HCAPLUS
CN      Acetic acid, 2,2',2'',2''',2''''',2''''',2''''',2''''',2''''',2''''',2''''',
        ''',2''''''''',2''''''''''-[(dodecahydro-1,4,6,8,10,12,14,17,19,21,23,25-
        dodecaoxo-1H,4H,14H,17H-2,16:3,15-dimethano-
        5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-
        2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24
        a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''
        ,3''':3'',4']pentaleno[1'',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-
        g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-
        2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecayl)dodecakis(oxy-3,1-
        propanediylthio)]dodecakis-, stereoisomer (9CI)  (CA INDEX NAME)

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\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

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IT      558446-01-8
        RL: RCT (Reactant); RACT (Reactant or reagent)
          (synthesis of silica gel linked with cucurbituril by amino bond)
RN      558446-01-8  HCAPLUS
CN      1H,4H,14H,17H-2,16:3,15-Dimethano-
        5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-
        2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24
        a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''
        ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-
        g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-
        1,4,6,8,10,12,14,17,19,21,23,25-dodecone,
        dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-
        hydroxyethoxy)-, stereoisomer (9CI)  (CA INDEX NAME)

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Relative stereochemistry.

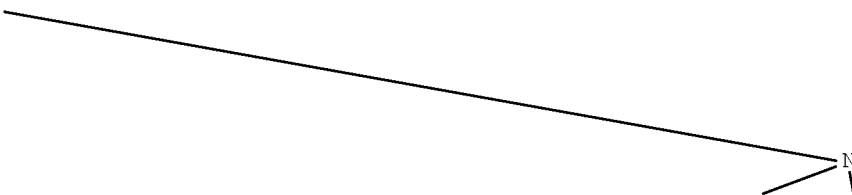
PAGE 1-B

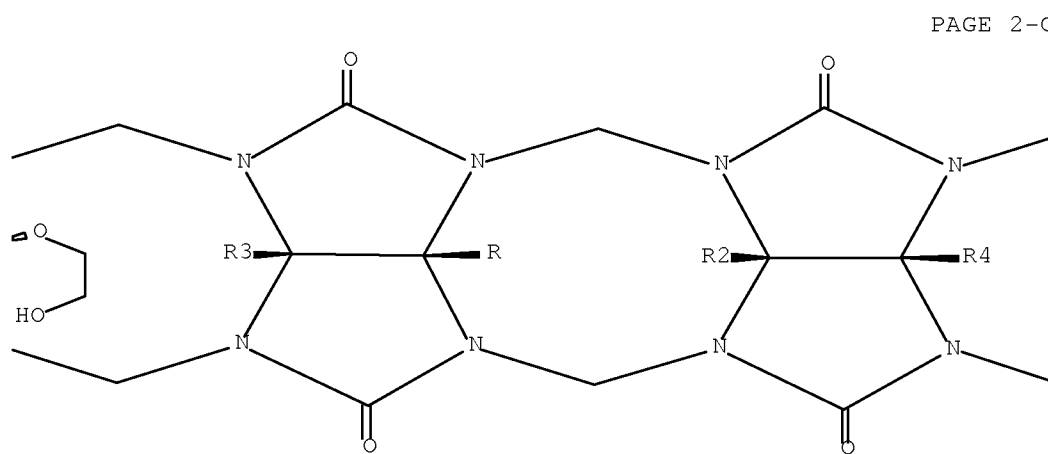
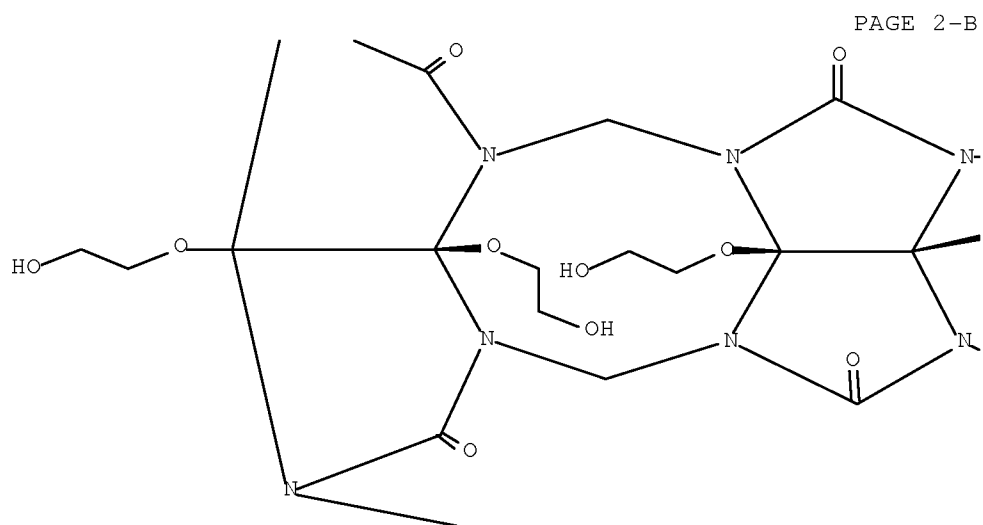


PAGE 1-C

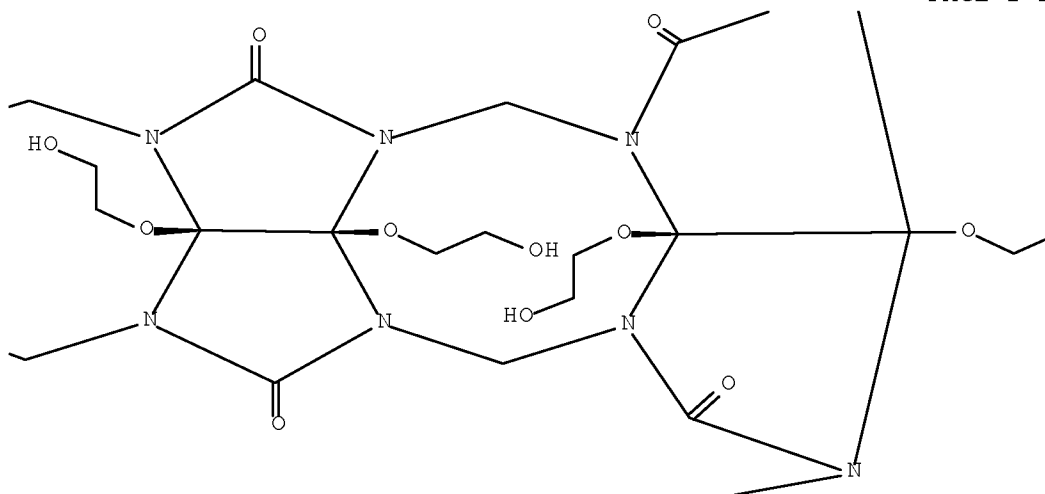


PAGE 1-D





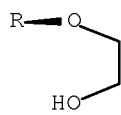
PAGE 2-D



PAGE 2-E



PAGE 3-A



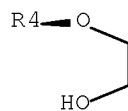
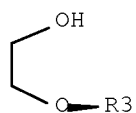
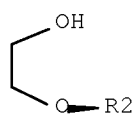


PAGE 3-B

PAGE 3-C

PAGE 3-D

PAGE 4-A

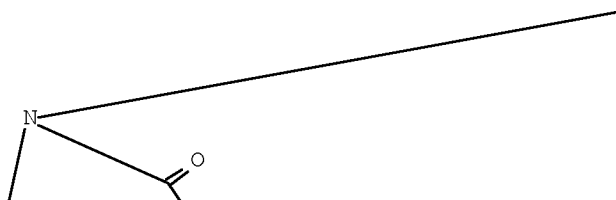


IT 558445-90-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (synthesis of silica gel linked with cucurbituril by sulfido-bond)  
 RN 558445-90-2 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''

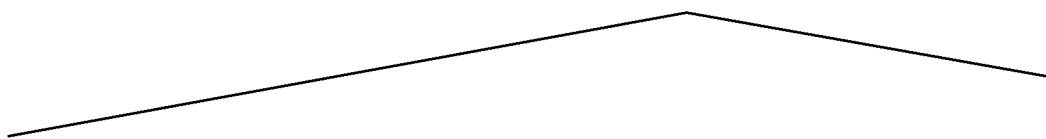
,3':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone,  
dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-  
propen-1-yloxy)-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

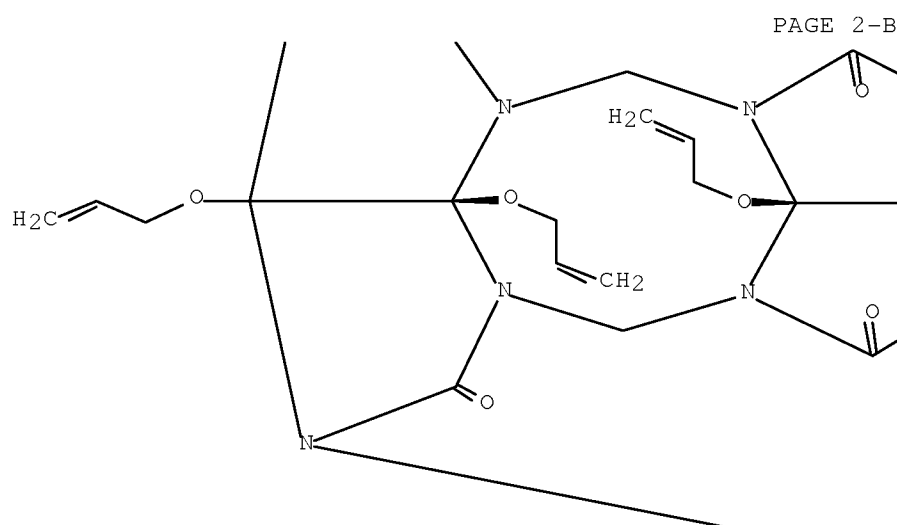
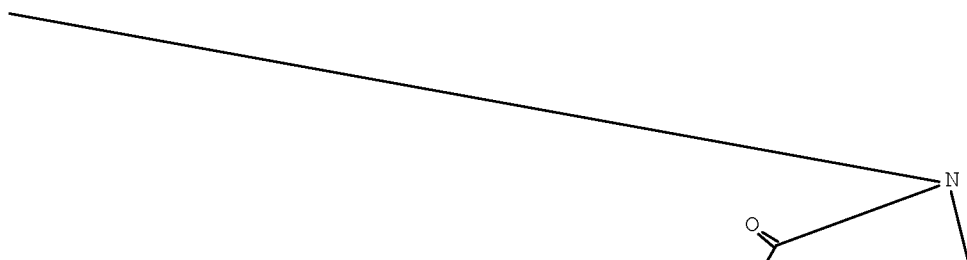
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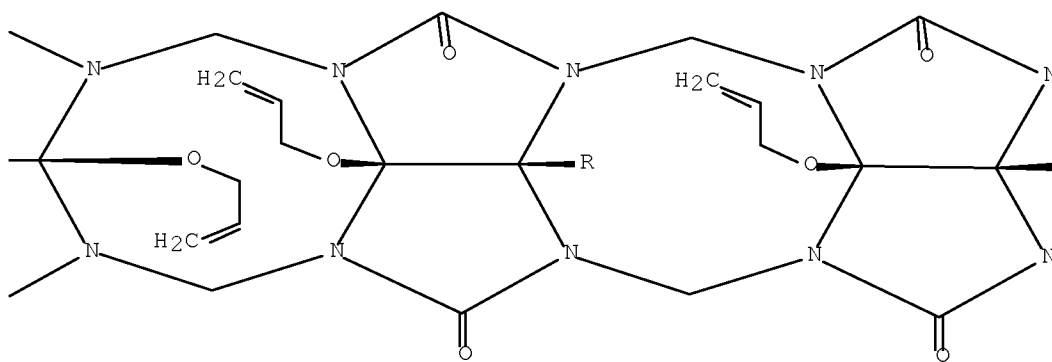
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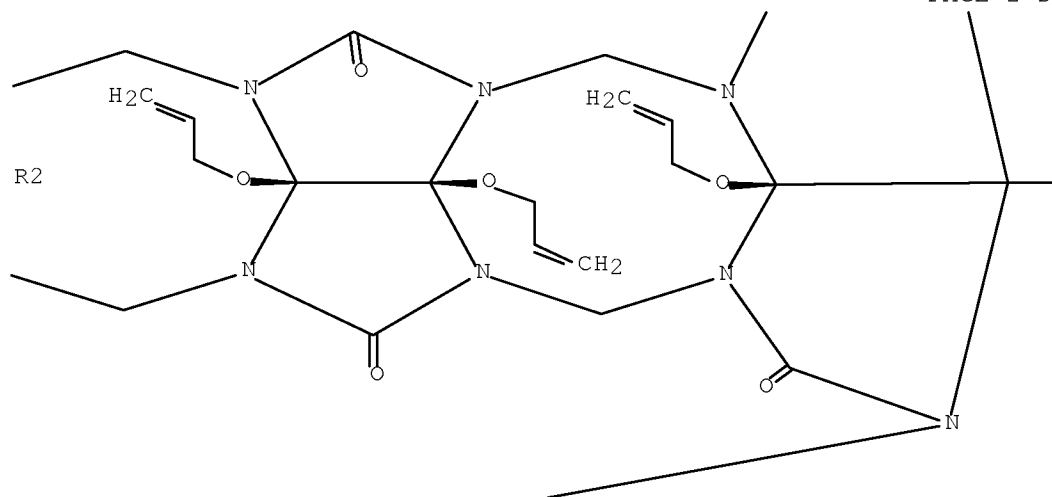
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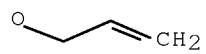
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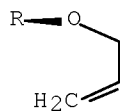
PAGE 2-D



PAGE 2-E



PAGE 3-A

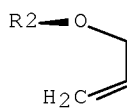


PAGE 3-B

PAGE 3-C

PAGE 3-D

PAGE 4-A



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 19 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
AN 2004:534372 HCAPLUS Full-text

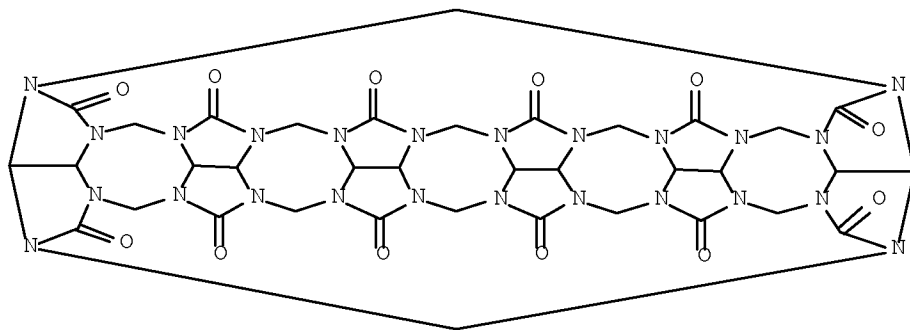
DN 141:90461  
 TI Temporary finishing of textiles with cucurbiturils  
 IN Doering, Steve; Kainz, Sabine; Roesmann, Rolf  
 PA Henkel Commanditgesellschaft Auf Aktien, Germany  
 SO PCT Int. Appl., 37 pp.  
 CODEN: PIXXD2

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004055258	A1	20040701	WO 2003-EP13810	20031206 <--
	W: AU, BR, BY, CA, CN, DZ, ID, IL, IN, JP, KR, MX, NO, NZ, PL, RU, SG, UA, US, UZ, VN, YU, ZA				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
	DE 10258830	A1	20040708	DE 2002-10258830	20021217 <--
	AU 2003289971	A1	20040709	AU 2003-289971	20031206 <--
PRAI	DE 2002-10258830	A	20021217	<--	
	WO 2003-EP13810	W	20031206	<--	
AB	In the title process, especially useful with clothing, the textiles are treated with aqueous comps. containing cucurbiturils and then dried, preferably at $\leq 80^\circ$ under normal pressure. The invention also relates to the use of cucurbiturils for providing textiles with a temporary deodorizing finish or for long-term scenting of textiles.				
IT	80262-44-8, Cucurbituril 283175-97-3, Cucurbit[6]uril RL: NUU (Other use, unclassified); USES (Uses) (temporary finishing of textiles with cucurbiturils)				
RN	80262-44-8 HCAPLUS				
CN	1H,4H,14H,17H-2,16:3,15-Dimethano- 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H- 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'', 3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'- g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene- 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro- (CA INDEX NAME)				

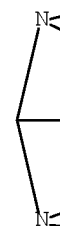


RN 283175-97-3 HCAPLUS  
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 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',  
 ,3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-

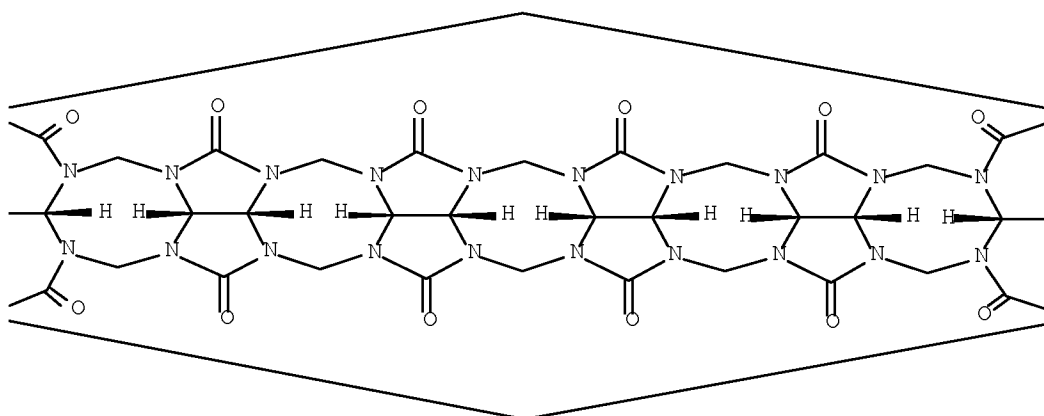
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer (CA  
INDEX NAME)

Relative stereochemistry.

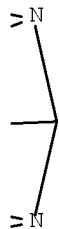
PAGE 1-A



PAGE 1-B



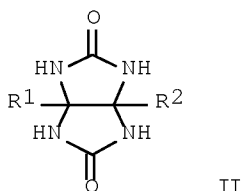
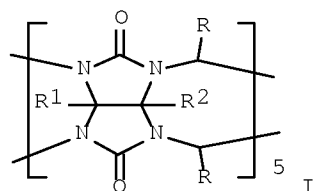
PAGE 1-C



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 20 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2003:582450 HCAPLUS Full-text  
 DN 139:149628  
 TI Improved preparation of cucurbits, their use as gas scavengers, and method  
 for removing gas by them  
 IN Miyahara, Yuji  
 PA Sangaku Renkei Kiko Kyushu K. K., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003212877	A	20030730	JP 2002-14380	20020123 <--
PRAI	JP 2002-14380		20020123	<--	
OS	CASREACT 139:149628; MARPAT 139:149628				
GI					



AB Cucurbits I [R = H, C1-6 (un)substituted alkyl, C2-6 (un)substituted alkenyl, (un)substituted Ph; R1, R2 = H, C1-10 (un)substituted alkyl, (un)substituted Ph], useful for removing O, N, CO, CO2, CO, Ar, etc., are prepared by treatment of RCHO (R = same as above) with glycoluril derivs. II (R1, R2 = same as above) and NH4Cl in the presence of HCl, separating the resulting NH4Cl adducts, converting them into NH4OH adducts, and heating (in vacuo) to remove NH3. Alternatively, the glycoluril derivs. are stepwise treated with the aldehydes in the presence of HCl, and with NH4Cl. Thus, II (R1 = R2 = Me) was treated with NH4Cl, concentrated HCl and formalin at 80° for 6 h,



concentrated, treated with Amberlite IRA 410 (anion exchanger), and heated at 80° to give almost quant. I (R1 = R2 = Me).

IT 480434-28-4P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of cucurbits via ammonium chloride adducts for gas scavengers)

RN 480434-28-4 HCAPLUS

CN 1H,4H,12H,15H-2,14:3,13-Dimethano-

5H,6H,7H,8H,9H,10H,11H,16H,17H,18H,19H,20H,21H,22H-

2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-

eicosaazabispentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pe

ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-

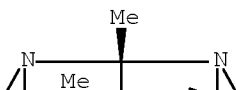
1,4,6,8,10,12,15,17,19,21-decone, decahydro-

2a,13a,15b,16b,17b,18b,19b,20b,21b,22b-decamethyl-, dihydrochloride,

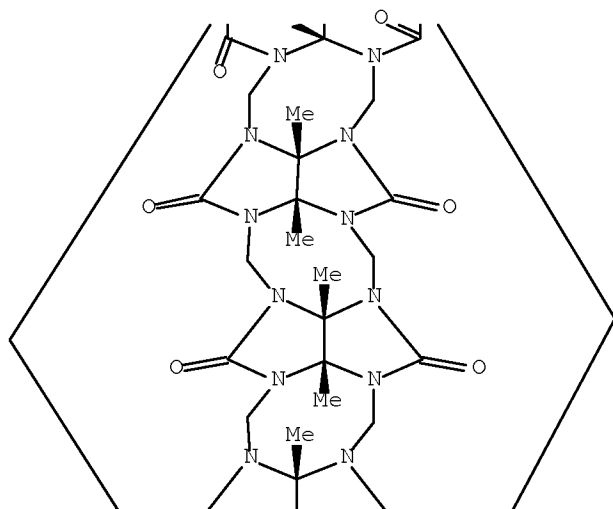
diammoniate, stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

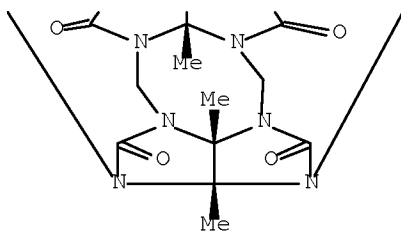
PAGE 1-A



PAGE 2-A



PAGE 3-A



●2 HCl

●2 NH<sub>3</sub>

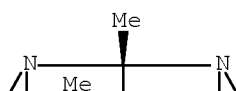
IT 143902-45-8P, Decamethylcucurbit[5]uril  
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); TEM  
 (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation of cucurbits via ammonium chloride adducts for gas scavengers)

RN 143902-45-8 HCAPLUS

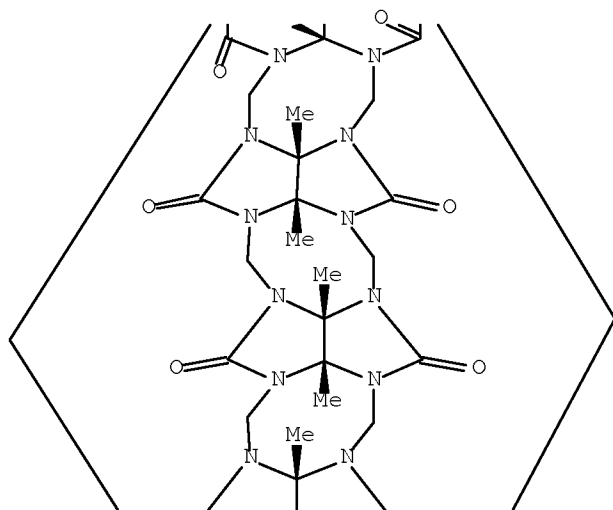
CN 1H, 4H, 12H, 15H-2, 14:3, 13-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 16H, 17H, 18H, 19H, 20H, 21H, 22H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 13, 14, 15a, 16a, 17a, 18a, 19a, 20a, 21a, 22a-  
 eicosaazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2'', 3'':3', 4']pe  
 ntaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-cd:1', 2', 3'-gh]pentalene-  
 1, 4, 6, 8, 10, 12, 15, 17, 19, 21-decone, decahydro-  
 2a, 13a, 15b, 16b, 17b, 18b, 19b, 20b, 21b, 22b-decamethyl-, stereoisomer (CA  
 INDEX NAME)

Relative stereochemistry.

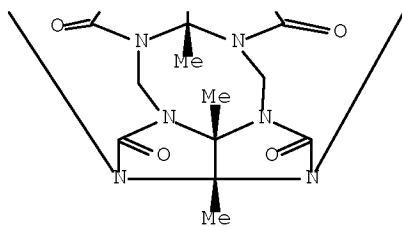
PAGE 1-A



PAGE 2-A



PAGE 3-A



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

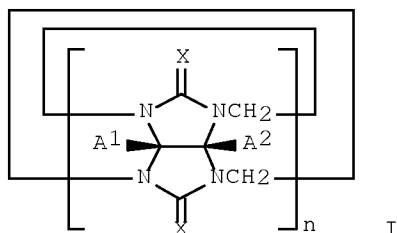
L45 ANSWER 21 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2003:532669 HCAPLUS Full-text  
 DN 139:101129  
 TI Methods for preparation of hydroxycucurbituril derivatives and their uses  
 IN Kim, Ki-Moon; Jon, Sang-Yong; Selvapalam, Narayanan; Oh, Dong-Hyun  
 PA Postech Foundation, S. Korea  
 SO PCT Int. Appl., 45 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

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	EP 1463732	A1	20041006	EP 2002-796981	20021126 <--
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	US 7388099	B2	20080617		
	US 20080260676	A1	20081023	US 2008-138883	20080613 <--
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	KR 2002-68362	A	20021106	<--	
	KR 2002-2002	A	20020103	<--	
	WO 2002-KR2213	W	20021126	<--	
	US 2004-497464	A3	20040602	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 139:101129; MARPAT 139:101129

GI



AB Provided are hydroxycucurbituril derivs., e.g., I [A1, A2 = OH, (un)substituted C1-30-alkoxy, C1-30-alkenyloxy (sic), C1-30-alkynyloxy (sic), C2-30-carbonylalkoxy, C1-30-thioalkoxy, C1-30-alkylthioalkoxy, C1-30-hydroxyalkoxy, C1-30-alkylsilyloxy, C1-30-aminoalkoxy, C1-30-aminoalkylthioalkoxy, C5-30-cycloalkoxy, C2-30-heterocycloalkoxy, C6-30-aryloxy, C6-20-arylalkoxy, C4-30-heteroaryloxy, C1-30-alkylthio, C1-30-alkenylthio (sic), C1-30-alkynylthio (sic), C2-30-carbonylalkylthio, C1-30-alkylsilylthio, C1-30-aminoalkylthio, C1-30-aminoalkylthioalkylthio, C5-30-cycloalkylthio, C2-30-heterocycloalkylthio, C6-30-arylthio, C6-20-arylalkylthio (sic), C4-30-heteroarylthio, C4-30-heteroarylalkylthio, C1-30-alkylamino, C1-30-alkenylamino (sic), C1-30-alkynylamino (sic), C2-30-carbonylalkylamino, C1-30-thioalkylamino, C1-30-hydroxyalkylamino, C1-30-alkylsilylamino, C1-30-aminoalkylamino, C5-30-cycloalkylamino, C2-30-heterocycloalkylamino, C6-30-arylamino, C4-30-heteroarylamino; A1 = A2 = H; X = O, S, NH; n = 4 - 20], their preparation methods and uses. Thus, hydroxycucurbit[6]uril (I; A1 = A2 = OH, X = O, n = 6) was prepared in 55% yield from cucurbit[6]uril (I; A1 = A2 = H, X = O, n = 6) via oxidation with aqueous K2S2O8. The hydroxycucurbituril derivative is easy to further functionalize with enhanced solubility in common solvents, thereby providing wider applications, e.g., in agrochems., cosmetics, medicinals and wastewater treatment. Hydroxycucurbit[6]uril formed: a 1:1 host-guest complex with THF; a 1:1 host-guest complex with isobutene; and formed an ion selective membrane with polyvinyl chloride.

IT 558446-06-3 558446-09-6 558446-11-0  
558446-13-2 558446-16-5 558446-19-8

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)  
(inclusion complex; preparation of hydroxycucurbituril derivs. and their uses)

RN 558446-06-3 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2'',  
3''':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,  
dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecahydroxy-,  
stereoisomer, compd. with cyclopentane (1:1) (9CI) (CA INDEX NAME)

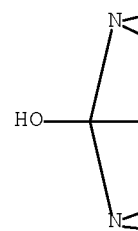
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CRN 558445-69-5

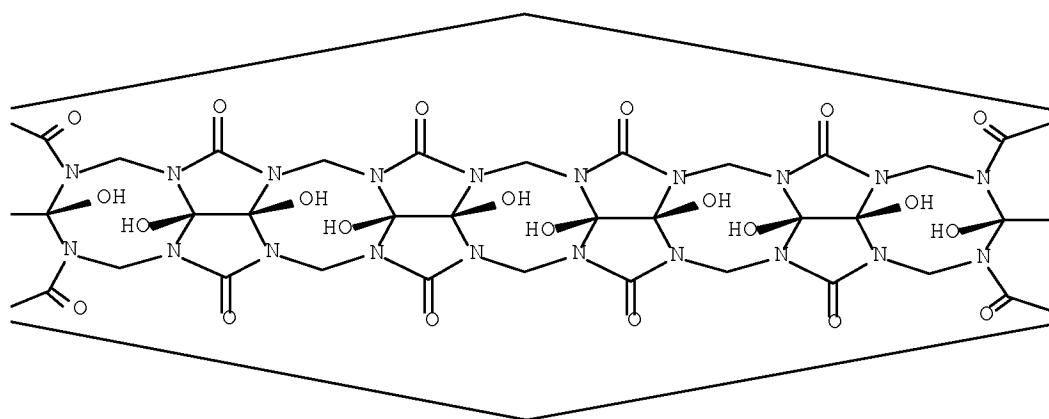
CMF C36 H36 N24 O24

Relative stereochemistry.

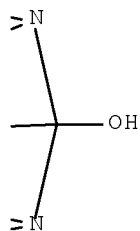
PAGE 1-A



PAGE 1-B



PAGE 1-C



CRN 287-92-3  
CMF C5 H10



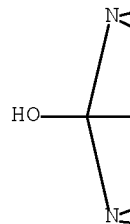
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5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,  
dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecahydroxy-,  
stereoisomer, compd. with 4-methylbenzenamine (1:1) (9CI) (CA INDEX NAME)

CM 1

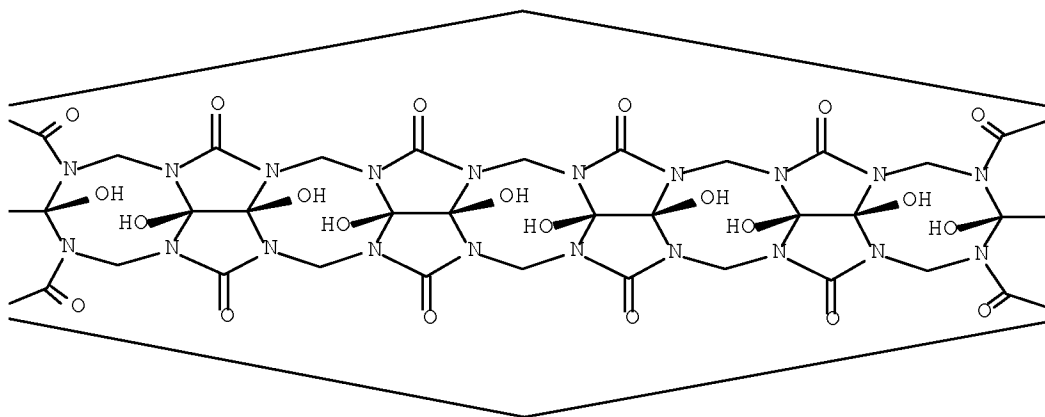
CRN 558445-69-5  
CMF C36 H36 N24 O24

Relative stereochemistry.

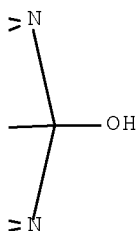
PAGE 1-A



PAGE 1-B



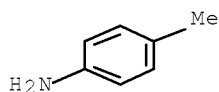
PAGE 1-C



CM 2

CRN 106-49-0

CMF C7 H9 N



RN 558446-11-0 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-

5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-

2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24

a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''

, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-

g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-

1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,

dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecahydroxy-,



stereoisomer, compd. with 1,4-benzenediamine (1:1) (9CI) (CA INDEX NAME)

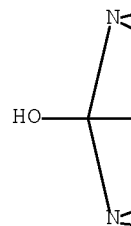
CM 1

CRN 558445-69-5

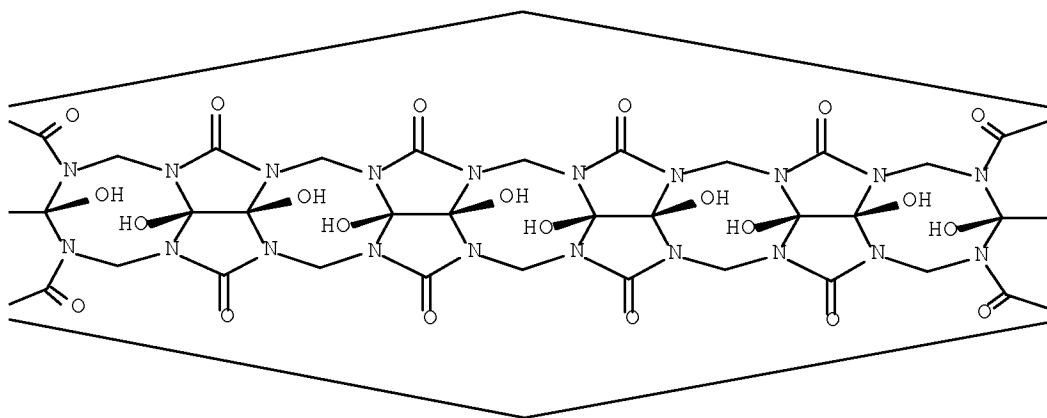
CMF C36 H36 N24 O24

Relative stereochemistry.

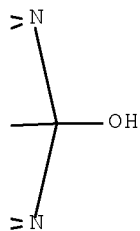
PAGE 1-A



PAGE 1-B



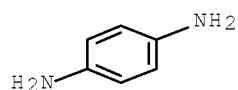
PAGE 1-C



CM 2

CRN 106-50-3

CMF C6 H8 N2



RN 558446-13-2 HCAPLUS

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 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,  
 dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecahydroxy-,  
 stereoisomer, compd. with 2-methyl-1-propene (1:1) (9CI) (CA INDEX NAME)

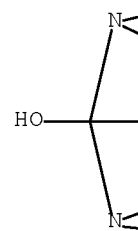
CM 1

CRN 558445-69-5

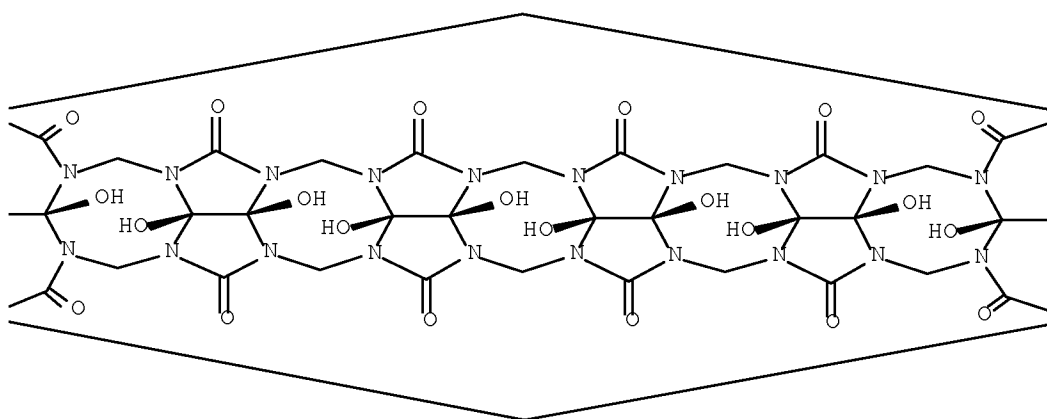
CMF C36 H36 N24 O24

Relative stereochemistry.

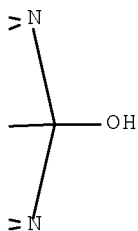
PAGE 1-A



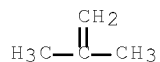
PAGE 1-B



PAGE 1-C



CRN 115-11-7  
CMF C4 H8



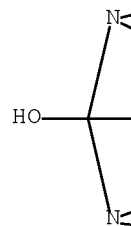
RN 558446-16-5 HCAPLUS  
CN Ethanaminium, 2-(acetyloxy)-N,N,N-trimethyl-, chloride, compd. with stereoisomer of dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecahydroxy-1H,4H,14H,17H-2,16:3,15-dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone (1:1) (9CI) (CA INDEX NAME)

CM 1

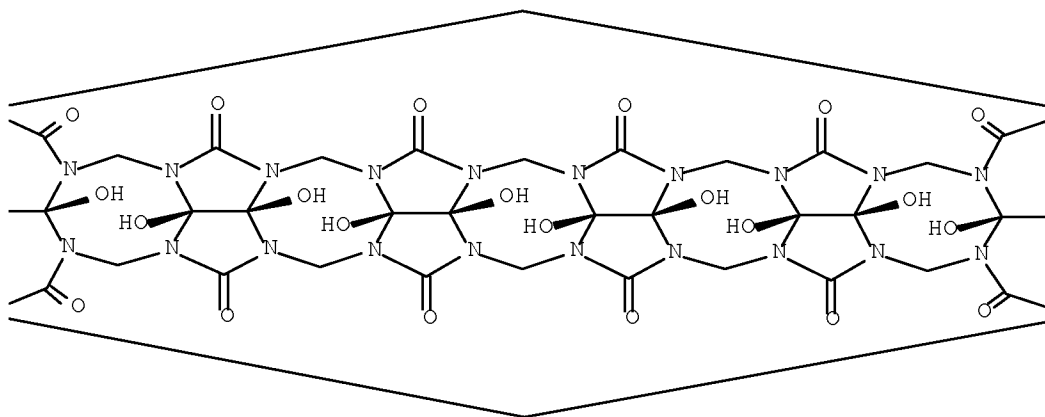
CRN 558445-69-5  
CMF C36 H36 N24 O24

Relative stereochemistry.

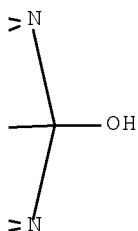
PAGE 1-A



PAGE 1-B



PAGE 1-C



CM 2

CRN 60-31-1

CMF C7 H16 N O2 . C1

Me<sub>3</sub><sup>+</sup>N—CH<sub>2</sub>—CH<sub>2</sub>—OAc● Cl<sup>-</sup>

RN 558446-19-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-

5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-

2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24

a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''

, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-

g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-

1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,

dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecahydroxy-,  
stereoisomer, compd. with tetrahydrofuran (1:1) (9CI) (CA INDEX NAME)

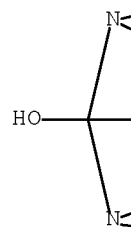
CM 1

CRN 558445-69-5

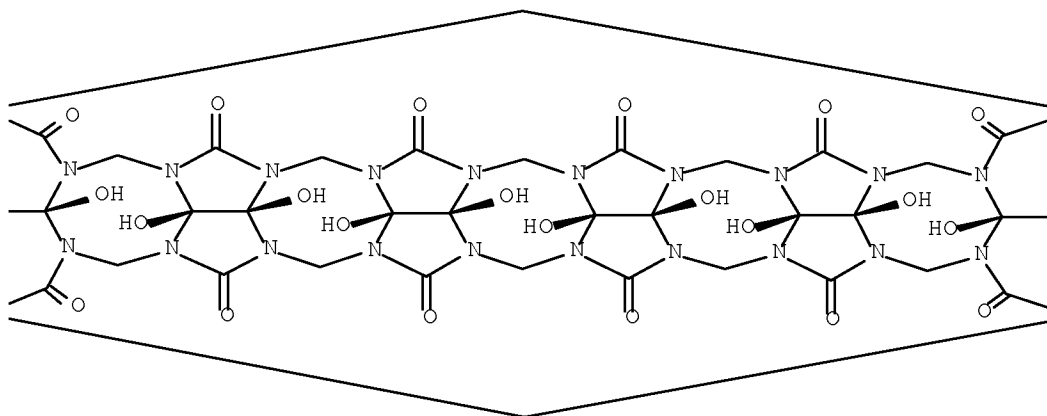
CMF C36 H36 N24 O24

Relative stereochemistry.

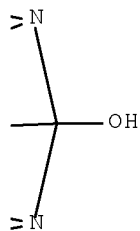
PAGE 1-A



PAGE 1-B



PAGE 1-C



CM 2

CRN 109-99-9

CMF C4 H8 O



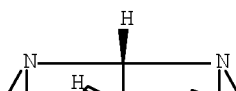
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 Cucurbit[7]uril 259886-51-6, Cucurbit[8]uril  
 283175-97-3, Cucurbit[6]uril  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (oxidation of; preparation of hydroxycucurbituril derivs. and their uses)

RN 259886-49-2 HCAPLUS

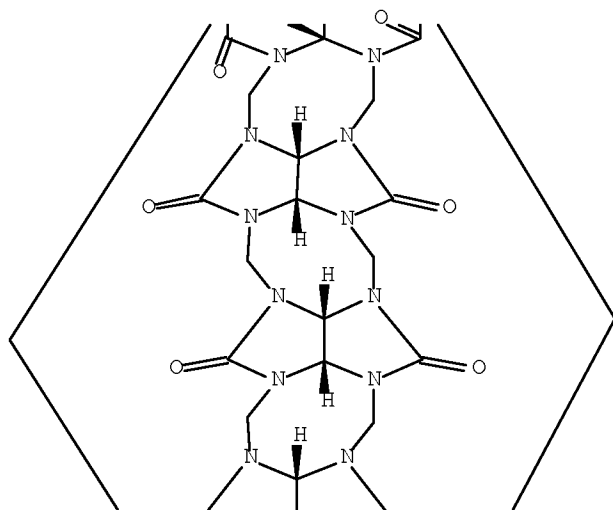
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 5H, 6H, 7H, 8H, 9H, 10H, 11H, 16H, 17H, 18H, 19H, 20H, 21H, 22H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 13, 14, 15a, 16a, 17a, 18a, 19a, 20a, 21a, 22a-  
 eicosaazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2'', 3'':3', 4']pe  
 ntaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-cd:1', 2', 3'-gh]pentalene-  
 1, 4, 6, 8, 10, 12, 15, 17, 19, 21-decone, decahydro-, stereoisomer (CA INDEX  
 NAME)

Relative stereochemistry.

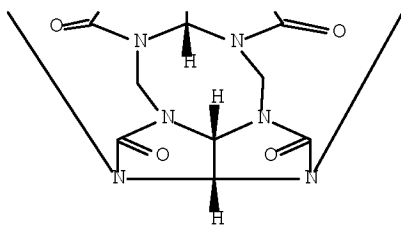
PAGE 1-A



PAGE 2-A



PAGE 3-A

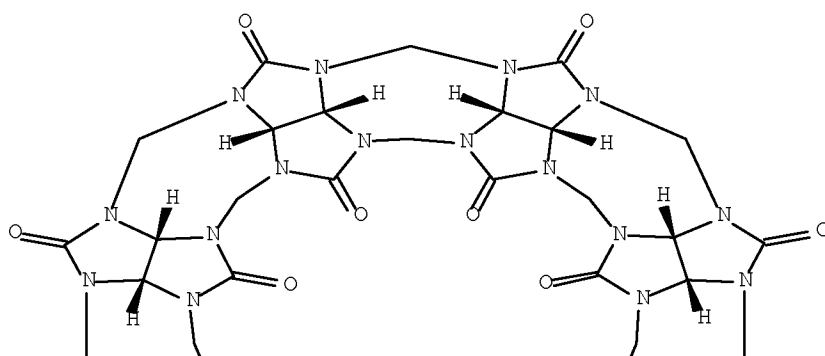




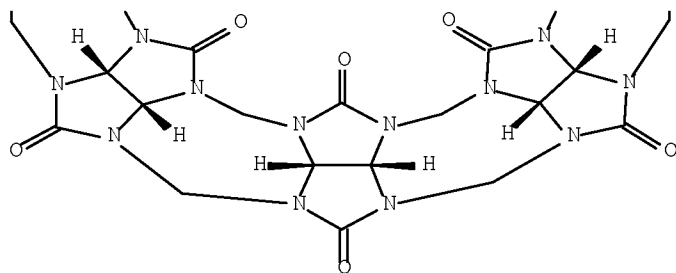
RN 259886-50-5 HCAPLUS  
 CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3''':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



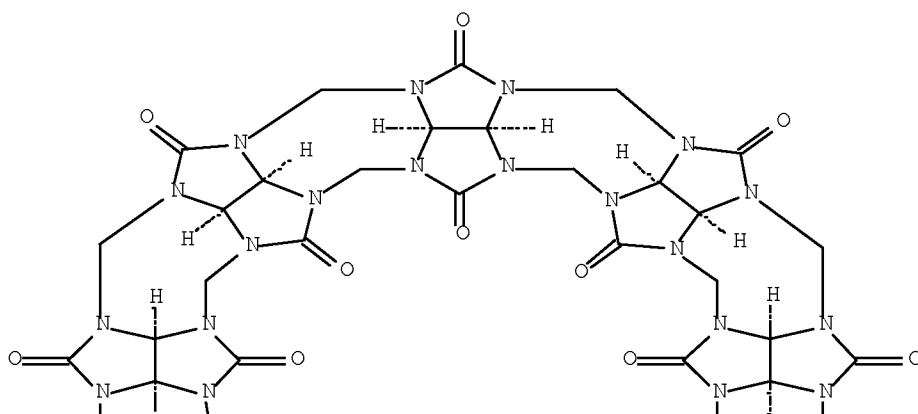
PAGE 2-A



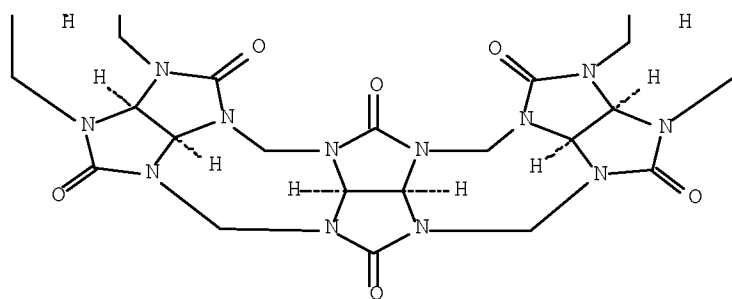
RN 259886-51-6 HCAPLUS  
 CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3''':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone, hexadecahydro-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



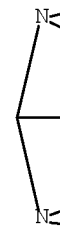
PAGE 2-A



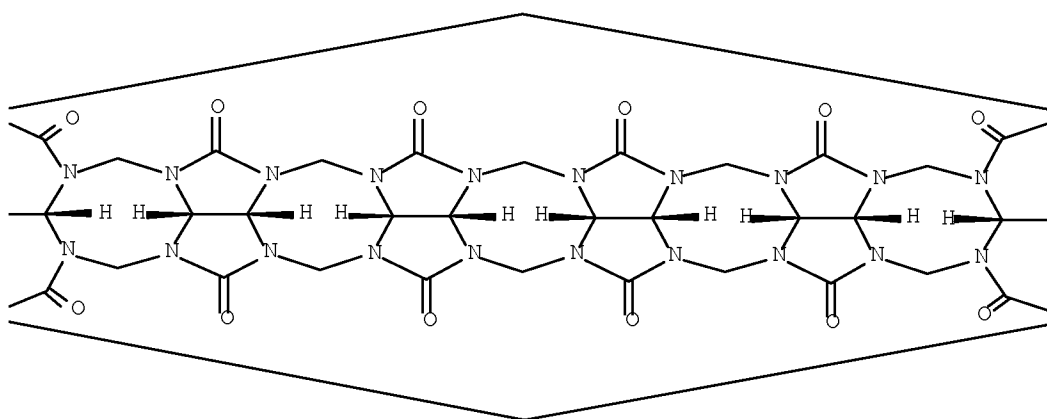
RN 283175-97-3 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',  
 3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer (CA  
 INDEX NAME)

Relative stereochemistry.

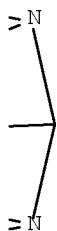
PAGE 1-A



PAGE 1-B



PAGE 1-C



IT 558445-75-3P 558445-78-6P  
RL: AMX (Analytical matrix); BSU (Biological study, unclassified); MOA  
(Modifier or additive use); RCT (Reactant); REM (Removal or disposal); SPN

(Synthetic preparation); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

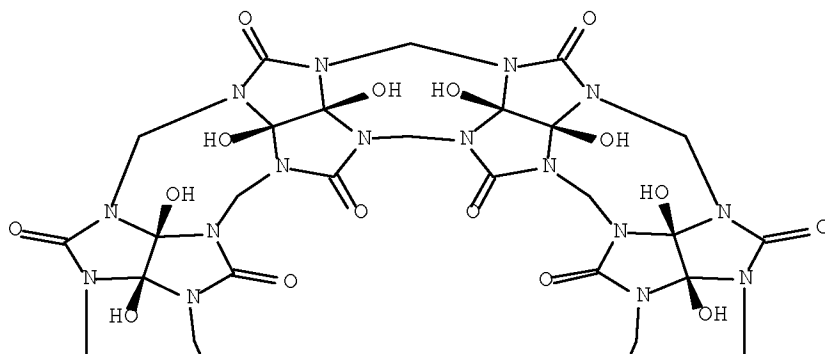
(preparation and O-alkylation of; preparation of hydroxycucurbituril derivs. and their uses)

RN 558445-75-3 HCAPLUS

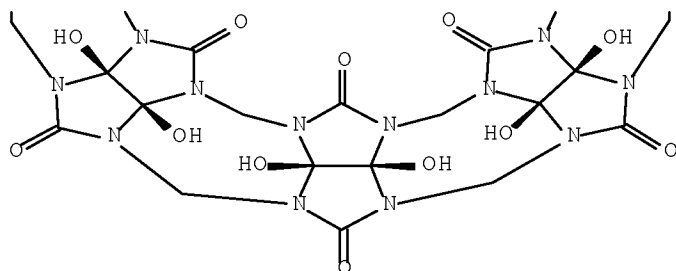
CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3''':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-2a,17a,19b,21b,21c,23b,23c,25b,25c,27b,27c,29b,29c,30b-tetradecahydroxy-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



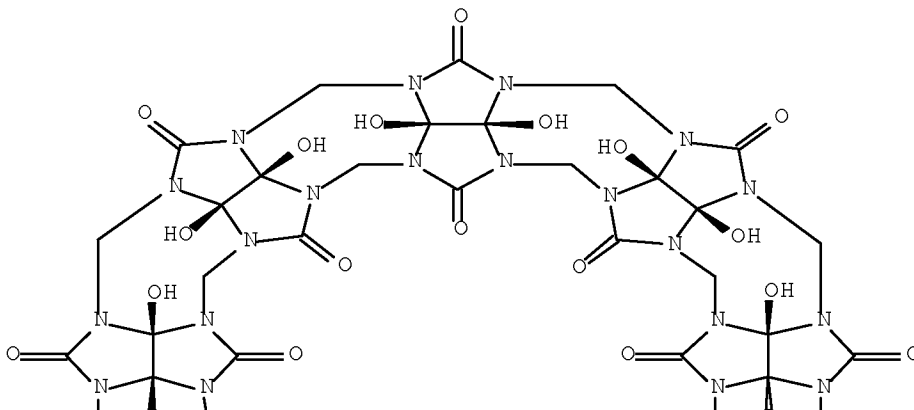
RN 558445-78-6 HCAPLUS

CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1'''''

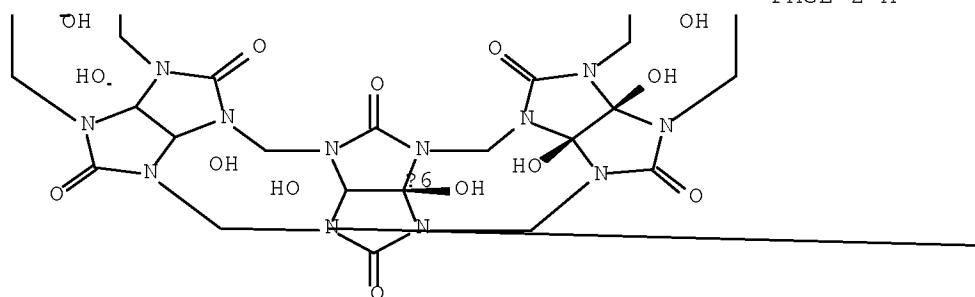
,2''',3''':3'',4''']pentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3'':3'',4'']pentaleno[1'',6'':5,6,7]cycloocta[1,2,3-gh:1'',2'',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone, hexadecahydro-2a,19a,21b,23b,23c,25b,25c,27b,27c,29b,29c,31b,31c,33b,33c,34b-hexadecahydroxy-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



IT 558445-90-2P

RL: AMX (Analytical matrix); BSU (Biological study, unclassified); MOA (Modifier or additive use); RCT (Reactant); REM (Removal or disposal); SPN (Synthetic preparation); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)

(preparation and ozonolysis or sulfuration of; preparation of hydroxycucurbituril derivs. and their uses)

RN 558445-90-2 HCAPLUS

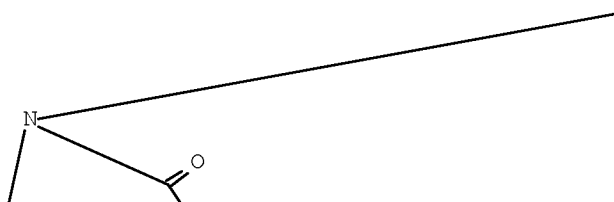
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5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-

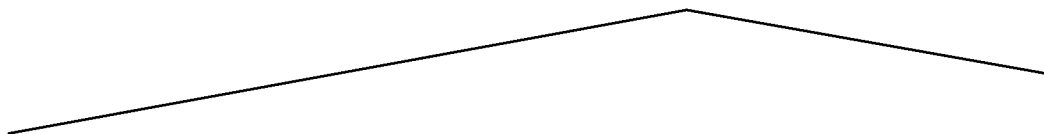
2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',  
3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone,  
dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-  
propen-1-yloxy)-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

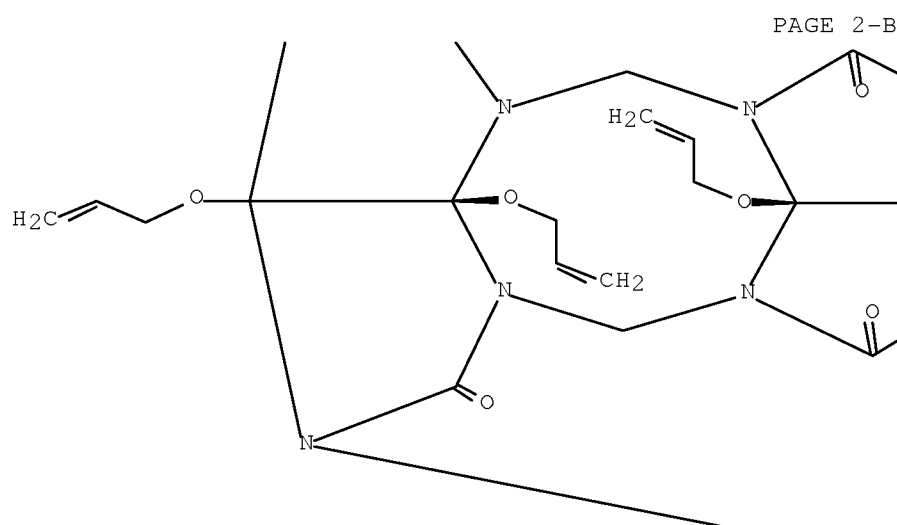
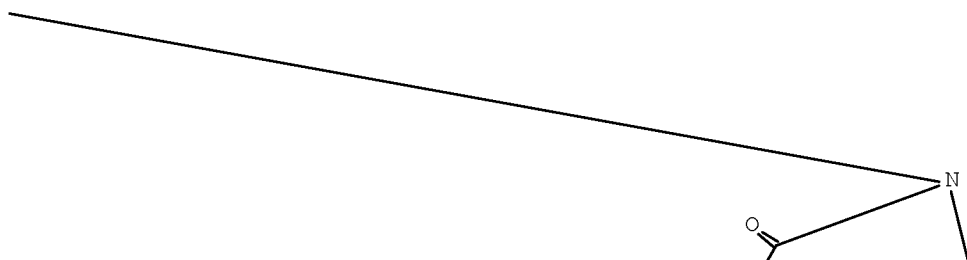
PAGE 1-B



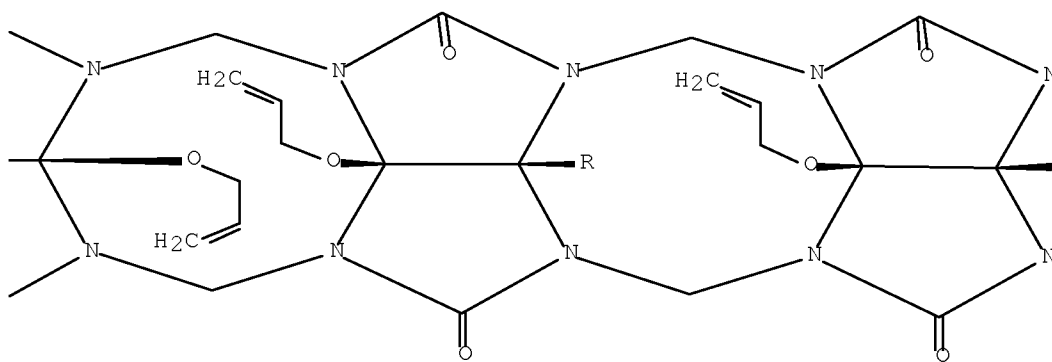
PAGE 1-C



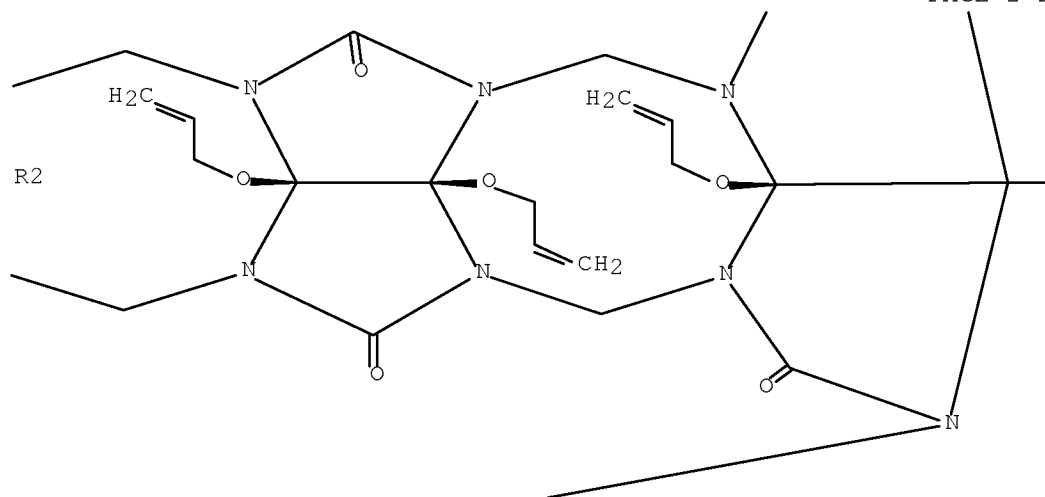
PAGE 1-D



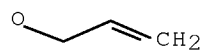
PAGE 2-C



PAGE 2-D

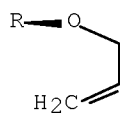


PAGE 2-E





PAGE 3-A

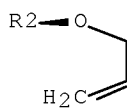


PAGE 3-B

PAGE 3-C

PAGE 3-D

PAGE 4-A



IT	558445-81-1P	558445-84-4P	558445-87-7P
	558445-92-4P	558445-95-7P	558445-98-0P
	558446-01-8P	558446-03-0P	558460-03-0P
	558460-04-1P	558460-05-2P	558460-06-3P
	558460-07-4P	558460-08-5P	

RL: AMX (Analytical matrix); BSU (Biological study, unclassified); MOA

(Modifier or additive use); REM (Removal or disposal); SPN (Synthetic preparation); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(preparation of hydroxycucurbituril derivs. and their uses)

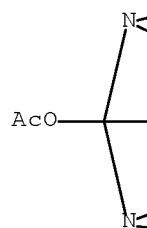
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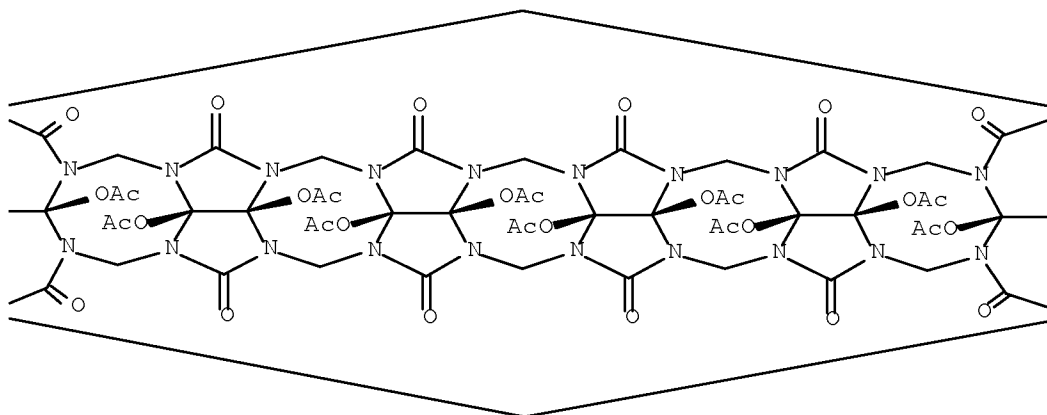
5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',  
3''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone,  
2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-  
dodecakis(acetyloxy)dodecahydro-, stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

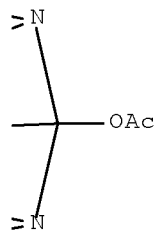
PAGE 1-A



PAGE 1-B



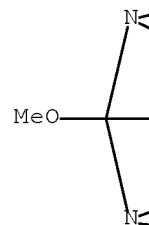
PAGE 1-C



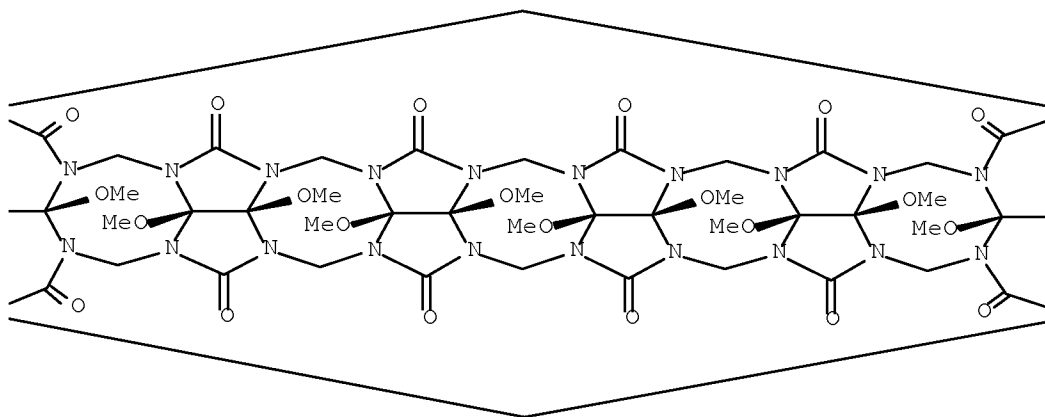
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 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,  
 dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecamethoxy-,  
 stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

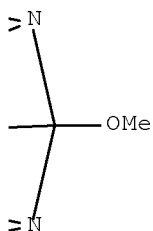
PAGE 1-A



PAGE 1-B



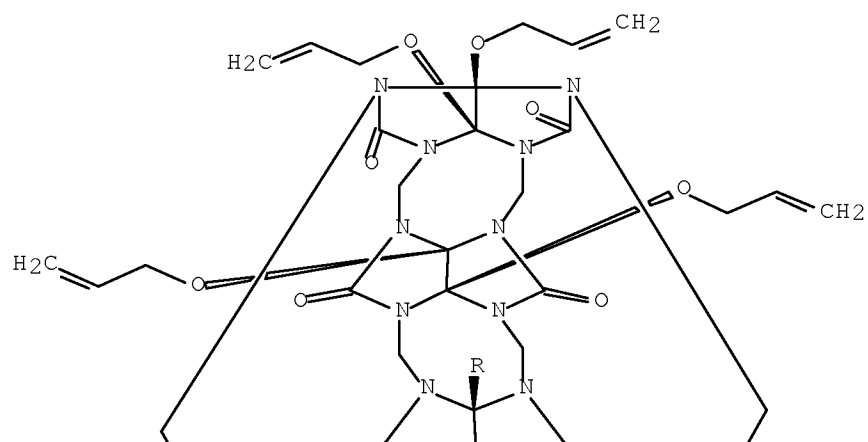
PAGE 1-C



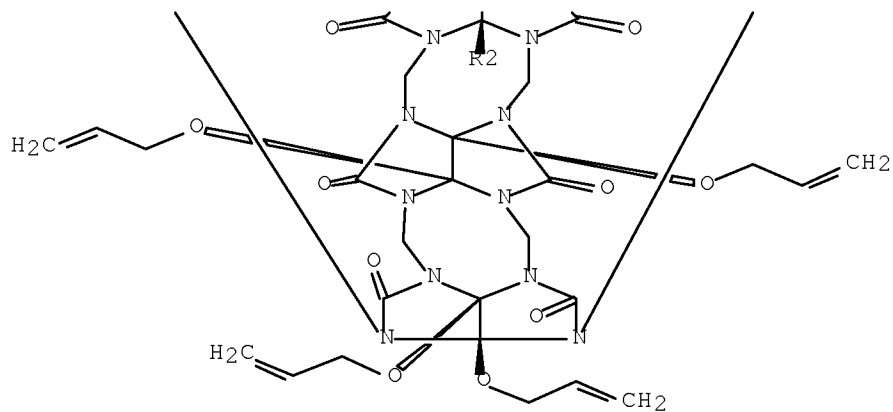
RN 558445-87-7 HCAPLUS  
 CN 1H,4H,12H,15H-2,14:3,13-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,16H,17H,18H,19H,20H,21H,22H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-  
 eicosaazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pe  
 ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
 1,4,6,8,10,12,15,17,19,21-decone, decahydro-  
 2a,13a,15b,17b,17c,19b,19c,21b,21c,22b-decakis(2-propenyloxy)-,  
 stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

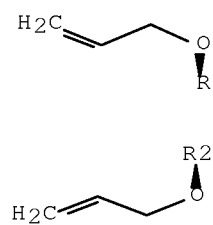
PAGE 1-A



PAGE 2-A



PAGE 3-A



RN 558445-92-4 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-

2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone, 2a,17b,19b,21b,23b,25b-hexabutoxydodecahydro-15a,19c,21c,23c,25c,26b-hexahydroxy-, stereoisomer (9CI) (CA INDEX NAME)

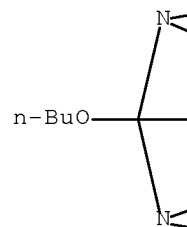
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 558445-95-7 HCAPLUS

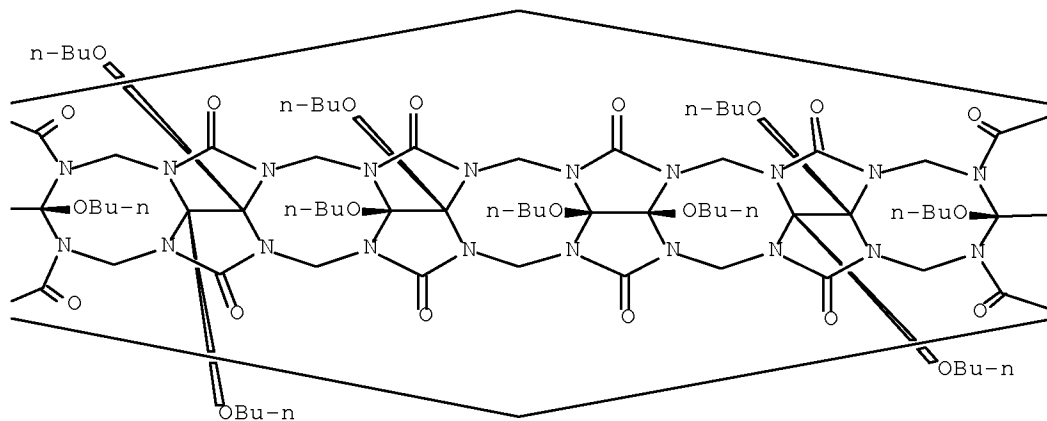
CN 1H,4H,14H,17H-2,16:3,15-Dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone, 2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecabutoxydodecahydro-, stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

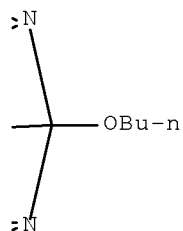
PAGE 1-A



PAGE 1-B



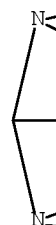
PAGE 1-C



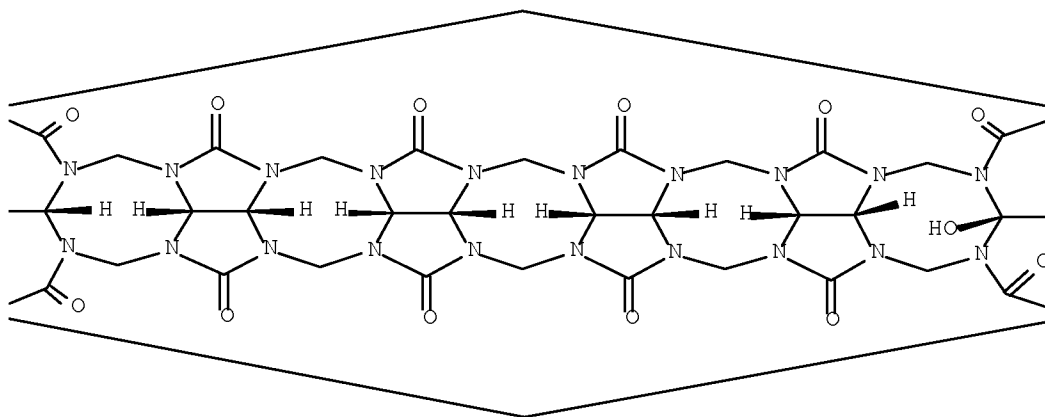
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 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-2a, 26b-dihydroxy-,  
 stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

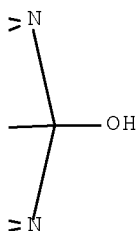
PAGE 1-A



PAGE 1-B



PAGE 1-C



RN 558446-01-8 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',  
 3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone,  
 dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecakis(2-  
 hydroxyethoxy)-, stereoisomer (9CI) (CA INDEX NAME)

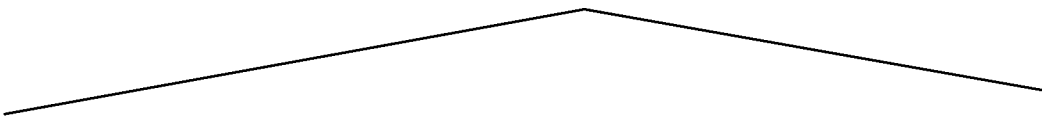
Relative stereochemistry.



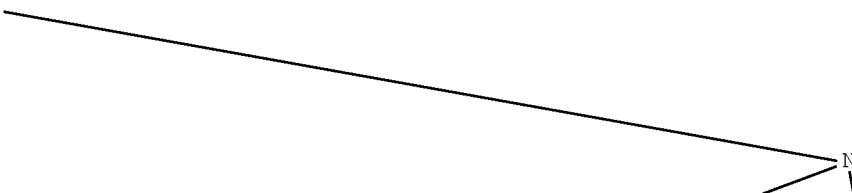
PAGE 1-B



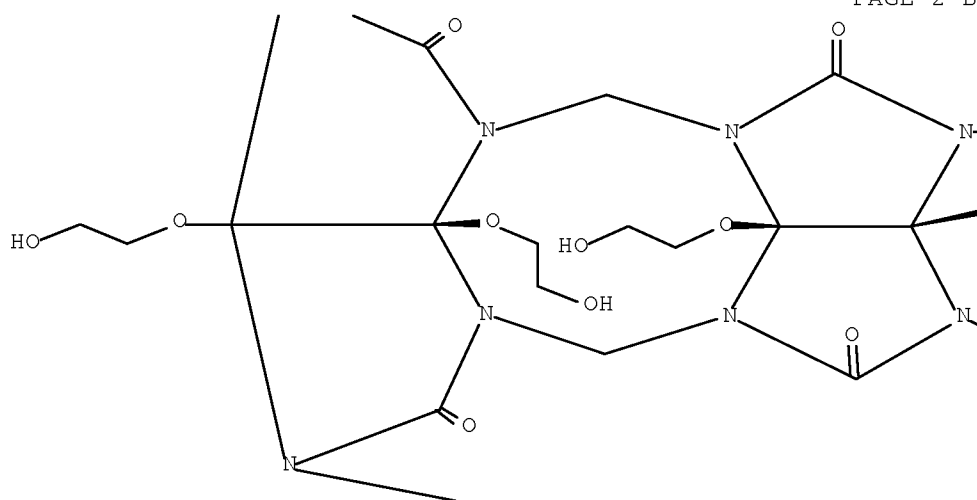
PAGE 1-C



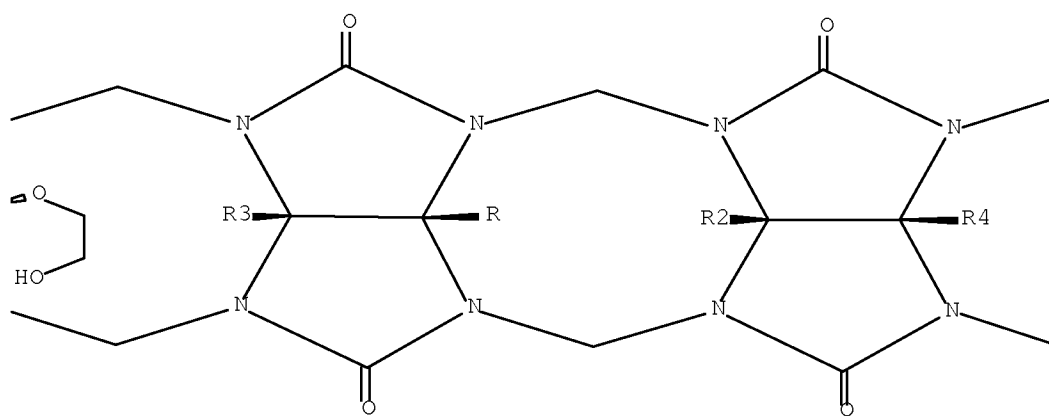
PAGE 1-D



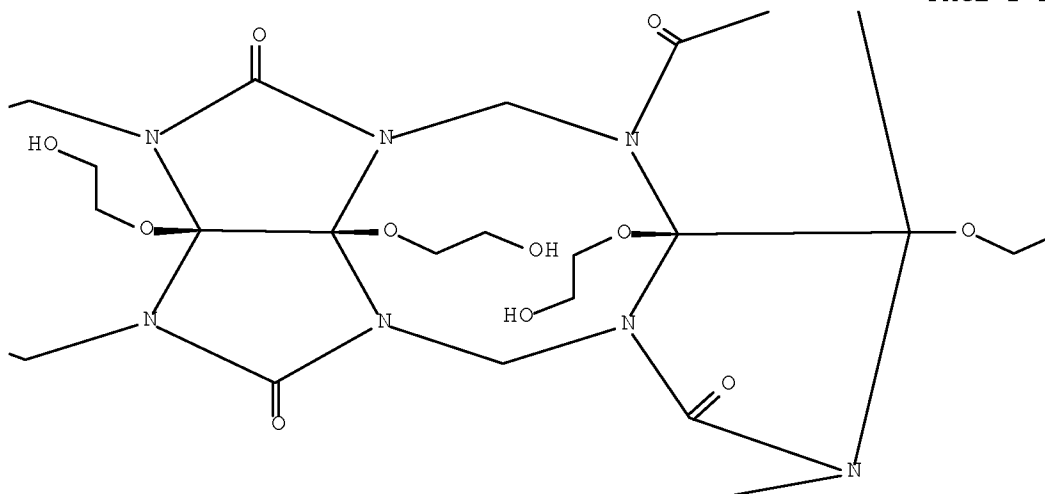
PAGE 2-B



PAGE 2-C



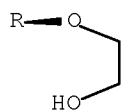
PAGE 2-D



PAGE 2-E



PAGE 3-A

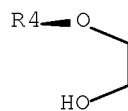
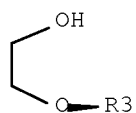
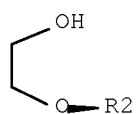


PAGE 3-B

PAGE 3-C

PAGE 3-D

PAGE 4-A



RN 558446-03-0 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone,

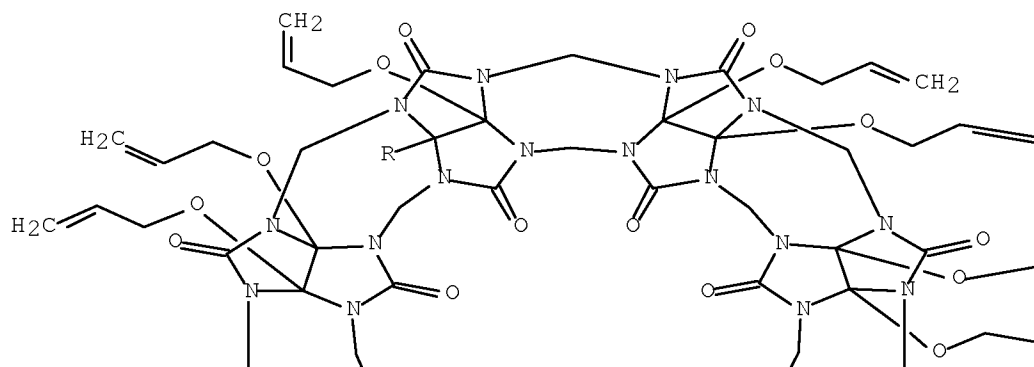
dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-  
dodecakis(propylamino)-, stereoisomer (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

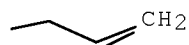
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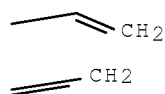
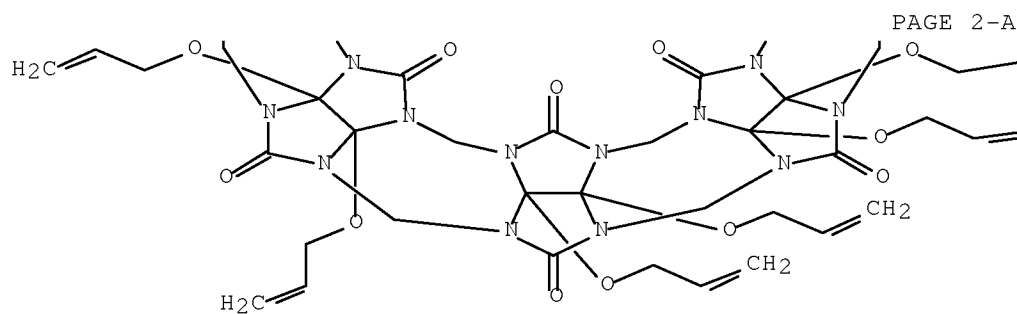
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a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
''',3''':3''',4''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':  
3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone,  
tetradecahydro-2a,17a,19b,21b,21c,23b,23c,25b,25c,27b,27c,29b,29c,30b-  
tetradecakis(2-propen-1-yloxy)-, stereoisomer (CA INDEX NAME)

PAGE 1-A

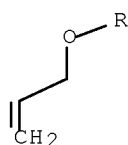


PAGE 1-B





PAGE 3-A

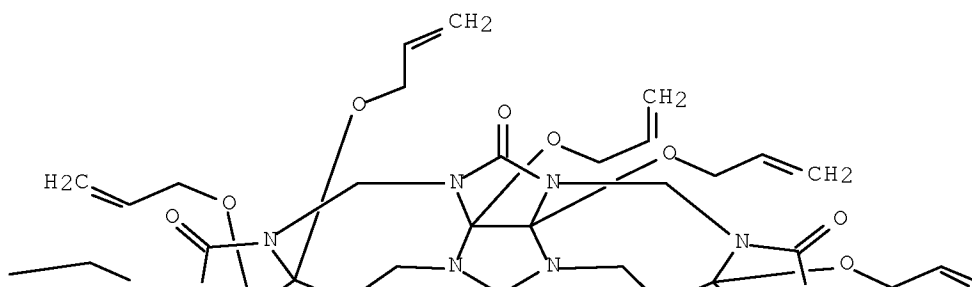


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 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1''',  
 2''',3''':3'',4'']pentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3  
 '':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone,  
 hexadecahydro-2a,19a,21b,23b,23c,25b,25c,27b,27c,29b,29c,31b,31c,33b,33c,3  
 4b-hexadecakis(2-propenyloxy)-, stereoisomer (9CI) (CA INDEX NAME)

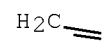
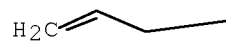
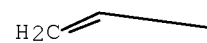
PAGE 1-A

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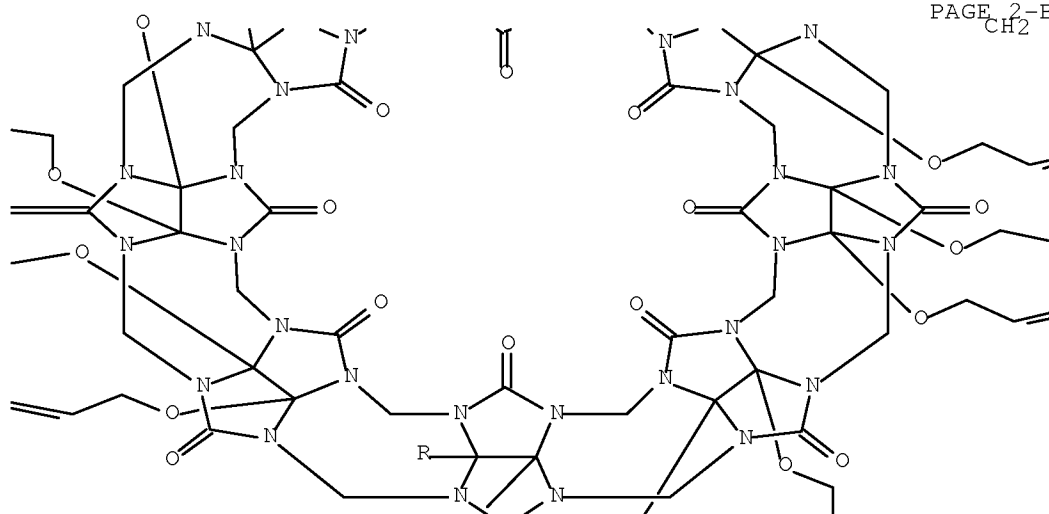
PAGE 1-B



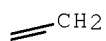
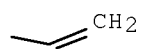
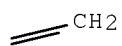
PAGE 2-A



PAGE 2-B



PAGE 2-C







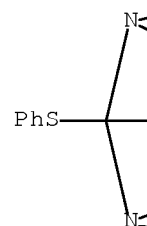
2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-dodecayl ester,  
stereoisomer (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

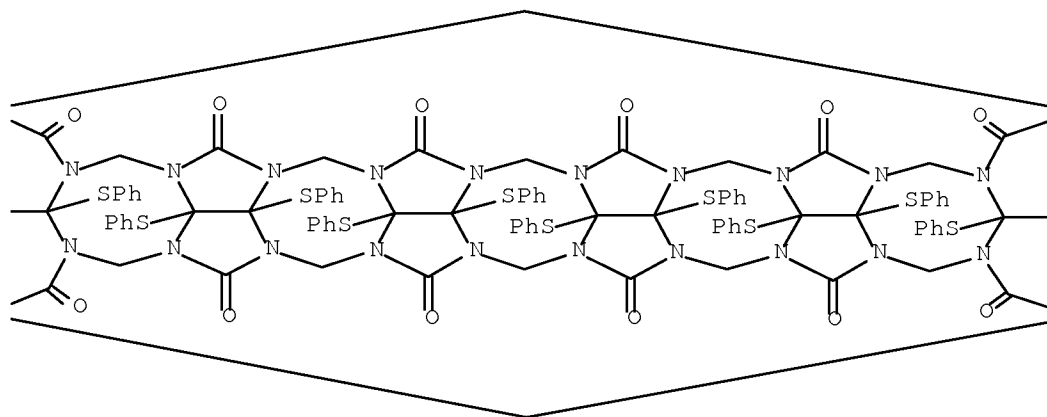
RN 558460-08-5 HCAPLUS

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5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone,  
dodecahydro-2a,15a,17b,19b,19c,21b,21c,23b,23c,25b,25c,26b-  
dodecakis(phenylthio)-, stereoisomer (9CI) (CA INDEX NAME)

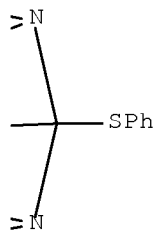
PAGE 1-A



PAGE 1-B



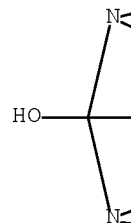
PAGE 1-C



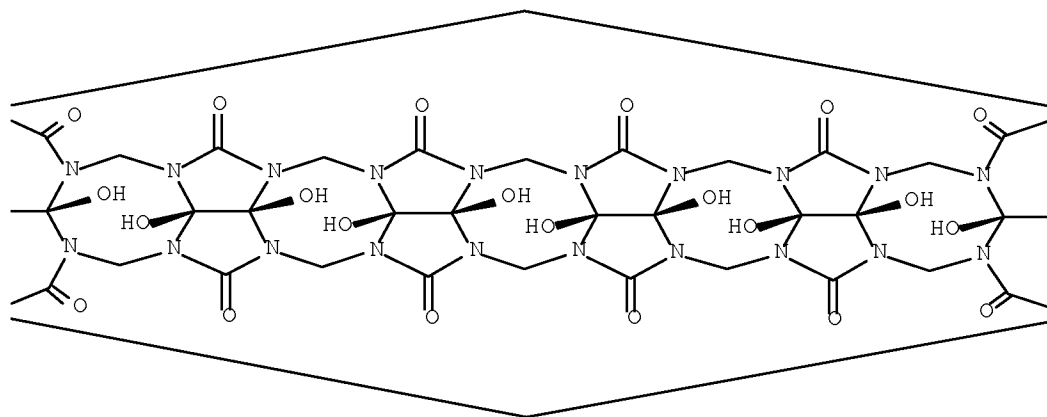
IT 558445-69-5P 558445-72-0P  
 RL: AMX (Analytical matrix); BSU (Biological study, unclassified); MOA (Modifier or additive use); RCT (Reactant); REM (Removal or disposal); SPN (Synthetic preparation); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)  
 (preparation, O-alkylation and guest-host complexation of; preparation of hydroxycucurbituril derivs. and their uses)  
 RN 558445-69-5 HCAPLUS  
 CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24a, 25a, 26a-tetracosazabispentaleno[1'', 6'':5'', 6'', 7'']cycloocta[1'', 2'', 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-2a, 15a, 17b, 19b, 19c, 21b, 21c, 23b, 23c, 25b, 25c, 26b-dodecahydroxy-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

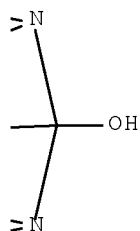
PAGE 1-A



PAGE 1-B



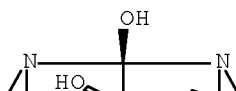
PAGE 1-C



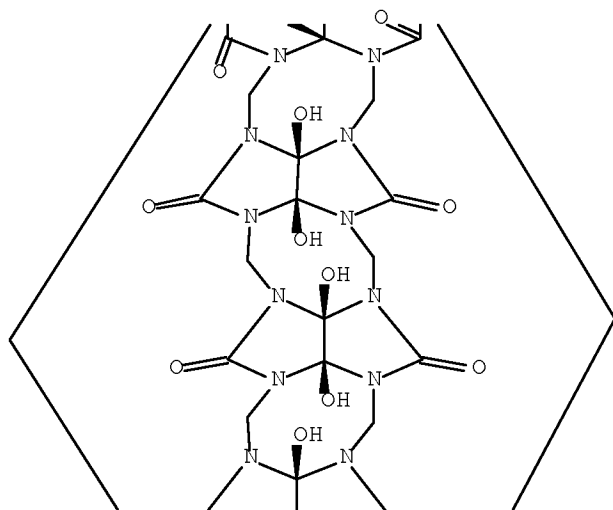
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 5H,6H,7H,8H,9H,10H,11H,16H,17H,18H,19H,20H,21H,22H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-  
 eicosaazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pe  
 ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
 1,4,6,8,10,12,15,17,19,21-decone, decahydro-  
 2a,13a,15b,17b,17c,19b,19c,21b,21c,22b-decahydroxy-, stereoisomer (CA  
 INDEX NAME)

Relative stereochemistry.

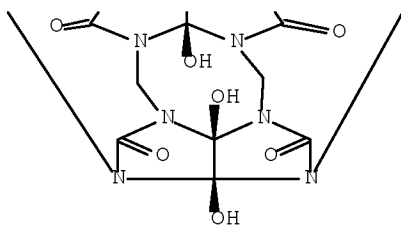
PAGE 1-A



PAGE 2-A



PAGE 3-A



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 22 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2003:242344 HCAPLUS Full-text  
 DN 138:264767  
 TI Inclusion compounds comprising host cucurbituril derivatives and guest metal complexes and their pharmaceutical compositions for treatment of cancer  
 IN Kim, Kimoon; Jeon, Young Jin; Kim, Soo-Young; Ko, Young Ho  
 PA Postech Foundation, S. Korea  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English

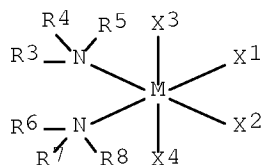
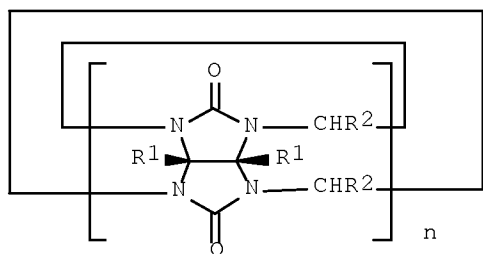
FAN.CNT 1

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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	AU 2002329097	A1	20030401	AU 2002-329097	20020918 <--
	AU 2002329097	B2	20050915		
	EP 1430061	A1	20040623	EP 2002-765666	20020918 <--
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	JP 4347693	B2	20091021		
	US 20040265237	A1	20041230	US 2004-489968	20040318 <--
	US 7459471	B2	20081202		
PRAI	KR 2001-57573	A	20010918	<--	
	WO 2002-KR1755	W	20020918	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 138:264767

GI



AB The present invention provides an inclusion compound having a variety of cucurbituril derivs. I, e.g., cucurbitu[7]ril, as a host mol. and metal complexes II (representing a wide variety of complexes), and especially platinum complexes, e.g., oxaliplatin, as a guest mol. A pharmaceutical composition having an anticancer effect can be obtained by using the inclusion compound according to the present invention. The pharmaceutical composition can prevent effective components from being biol. degraded in vivo and can exhibit continuous drug effect for a long time, just by a single dosage, by controlling the release time of the Pt complex once it reaches target tumor cells. The inclusion compound is used for treatment of cancer, including ovarian cancer, breast cancer, or colon cancer. Antiproliferative activities are reported of oxaliplatin-cucurbitu[7]ril 1:1 inclusion compound against A 549 (human non-small lung), SKOV-3 (human ovarian), SKMEL-2 (human melanoma), XF-498 (human CNS), and HCT-15 (human colon).

IT 502469-85-4F 502469-86-5F 502469-94-5F

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of inclusion compds. comprising host cucurbituril derivs. and guest platinum complexes for treatment of cancer)

RN 502469-85-4 HCAPLUS

CN Platinum, [(1R,2R)-1,2-cyclohexanediamine-κN,κN'] [ethanedioato(2-)-κO1,κO2]-, (SP-4-2)-, compd. with stereoisomer of hexadecahydro-2,20:3,19-dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3''':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone (1:2) (9CI) (CA INDEX NAME)

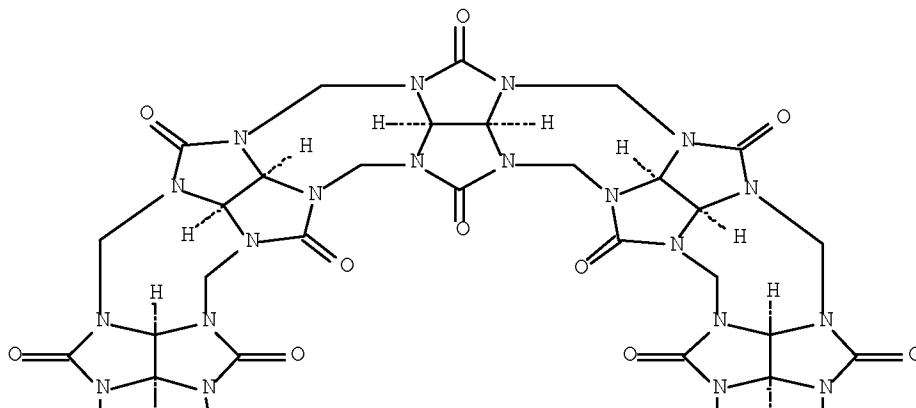
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CRN 259886-51-6

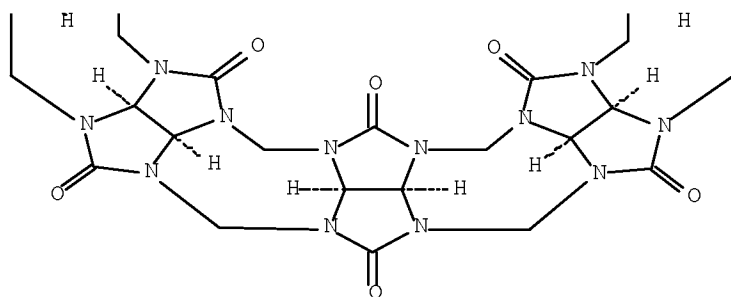
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



PAGE 2-A

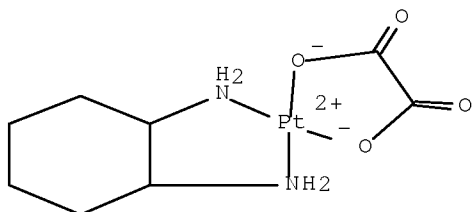


CM 2

CRN 61825-94-3

CMF C8 H14 N2 O4 Pt

CCI CCS



RN 502469-86-5 HCAPLUS

CN Platinum, dichloro(1,2-ethanediamine-κN,κN')-, (SP-4-2)-, compd. with stereoisomer of tetradecahydro-2,18:3,17-dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-octacosazabispentaleno[1''',6''':5''',6''',7''']cycloocta[1''',2''',3''':3''',4''']pentaleno[1''',6''':5''',6''',7''']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalenetetradecone (9CI) (CA INDEX NAME)

CM 1

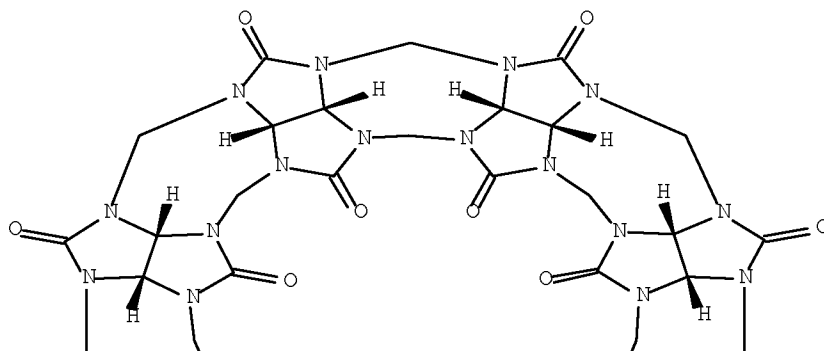
CRN 259886-50-5

CMF C42 H42 N28 O14

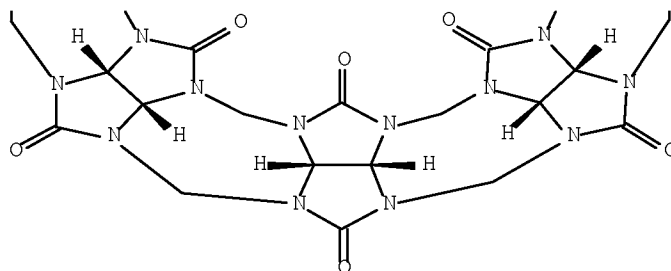
Relative stereochemistry.



PAGE 1-A



PAGE 2-A

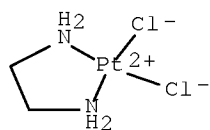


CM 2

CRN 14096-51-6

CMF C2 H8 Cl2 N2 Pt

CCI CCS



RN 502469-94-5 HCAPLUS

CN Platinum, dichloro(1,2-ethanediamine-κN,κN')-, (SP-4-2)-, compd. with stereoisomer of hexadecahydro-2,20:3,19-dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1'''''

,2''',3''':3'',4''']pentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3''':3'',4'']pentaleno[1'',6'':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone (9CI) (CA INDEX NAME)

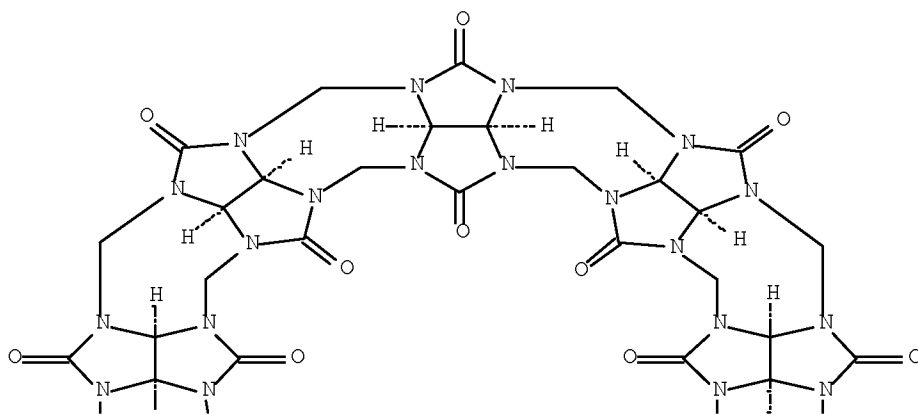
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CRN 259886-51-6

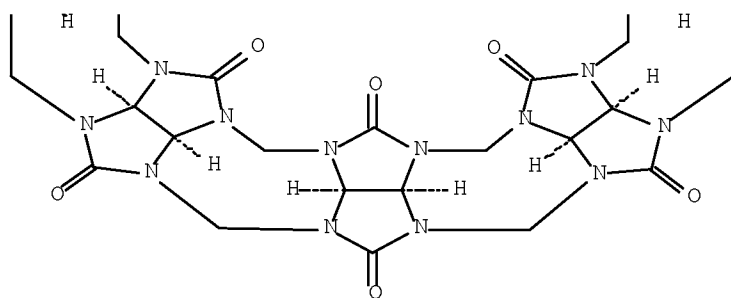
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Relative stereochemistry.

PAGE 1-A



PAGE 2-A

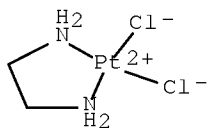


CM 2

CRN 14096-51-6

CMF C2 H8 Cl2 N2 Pt

CCI CCS



IT 502469-84-3P

RL: PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation, anticancer activity, crystal structure, binding constant, and use for treatment of cancer)

RN 502469-84-3 HCAPLUS

CN Platinum, [(1R,2R)-1,2-cyclohexanediamine-κN,κN'] [ethanedioato(2-)-κO1,κO2]-, (SP-4-2)-, compd. with stereoisomer of tetradecahydro-2,18:3,17-dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-octacosaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3''':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalenetetradecone (1:1), octahydrate (9CI) (CA INDEX NAME)

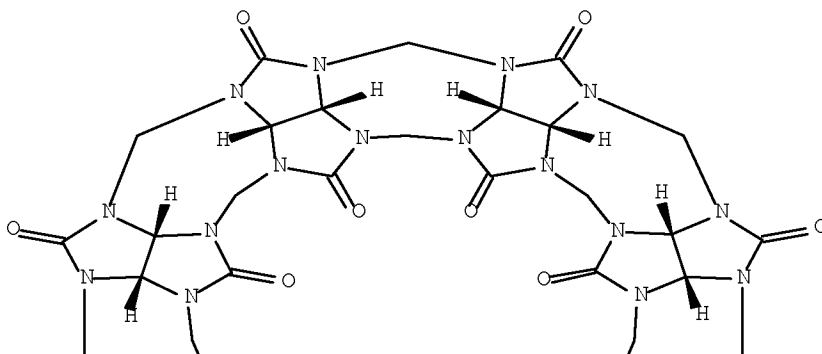
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CRN 259886-50-5

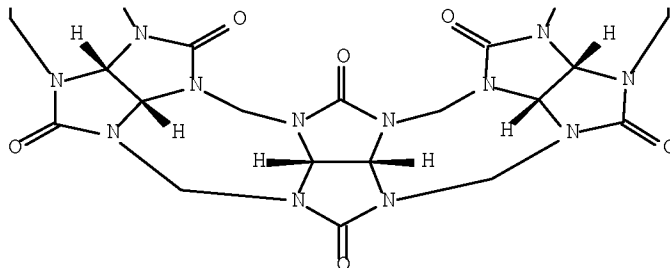
CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



PAGE 2-A

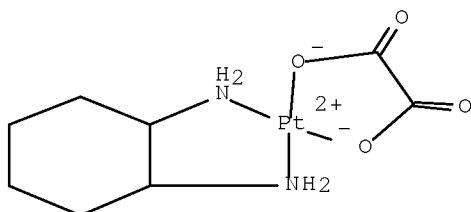


CM 2

CRN 61825-94-3

CMF C8 H14 N2 O4 Pt

CCI CCS



OSC.G 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 23 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2003:42277 HCAPLUS Full-text

DN 138:89832

TI Preparation of and separation methods for cucurbituril derivs. and their  
 use in ion sensors, as extractants, additives, drug carriers, catalysts,  
 and chromatographic packing material, and for extraction and purification  
 of fullerene and carboranes

IN Kim, Kimoon; Zhao, Jianzhang; Kim, Hee-Joon; Kim, Soo-Young; Oh, Jinho

PA Postech Foundation, S. Korea

SO PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003004500	A1	20030116	WO 2002-KR1259	20020703 <--
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CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,  
NE, SN, TD, TG

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US 20030212268	A1	20031113	US 2003-363468	20030304 <--
US 7179908	B2	20070220		
PRAI KR 2001-39756	A	20010704	<--	
WO 2002-KR1259	W	20020703	<--	

# ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 138:89832; MARPAT 138:89832

AB Cucurbituril derivs. possessing oxo, thioxo, and imino groups, hydrogen, various alkyl or alkyl derived substituents, as well as cycloalkyl chains encompassing the bridge carbons were prepared. The compds. can be used in ion sensors where the ion sensor is used to detect heavy metals such as lead, mercury, alkaline earth metals, and alkali metals. In addition, the ion sensor can be used to detect organic matter including acetylcholine, ammonium ions, organic amines, amino acid or derivs., and nucleic acid bases. These compds. can also be used to remove organic dyes from wastewater, heavy metals from water, and radioactive isotopes from radioactive wastes; they also can be used to capture and remove unpleasant odor and air pollutants, and to deodorize and decolorize livestock wastewater and ironwork wastewater. These derivs. can also be used as additives to polymers, cosmetics, artificially scented paper or textiles, pesticides, drugs, or foods. The authors also claim that these cucurbituril derivs. are useful as drug carriers, for extraction and purification of fullerene or carboranes, as packing material for chromatog. columns, as additives to gas separation membranes, and as catalysts for various chemical reactions. The cucurbituril derivs. have enhanced solubility in common solvents, thereby providing wider applications.

IT 925381-19-7 925381-24-4 1055050-12-8  
1055050-13-9 1055050-14-0 1055050-15-1

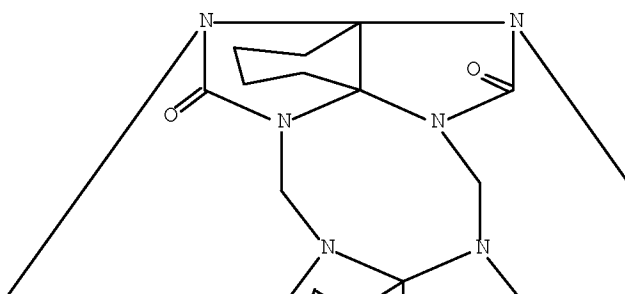
RL: PRPH (Prophetic)

(Preparation of and separation methods for cucurbituril derivs. and their use in ion sensors, as extractants, additives, drug carriers, catalysts, and chromatog. packing material, and for extraction and purification of fullerene and carboranes)

RN 925381-19-7 HCAPLUS

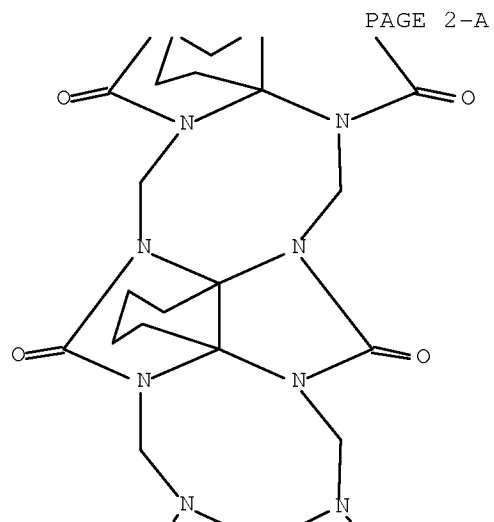
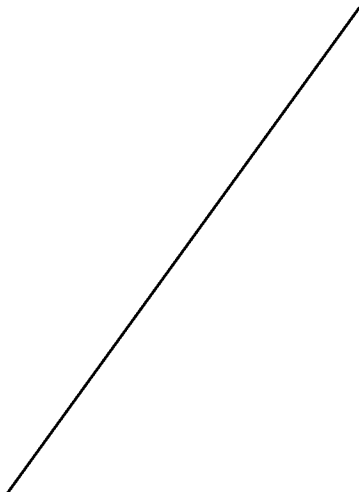
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PAGE 1-A

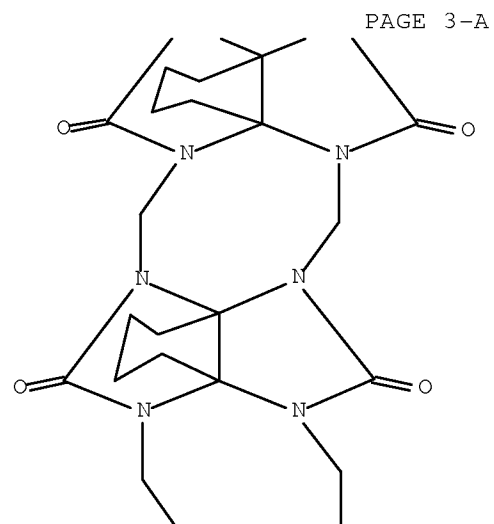
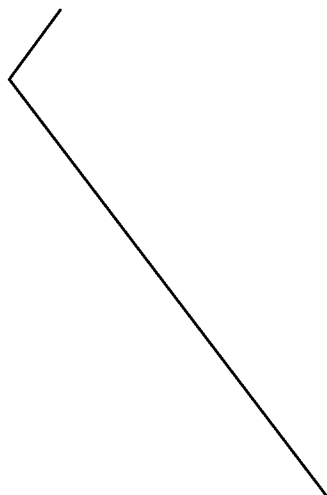


PAGE 1-B

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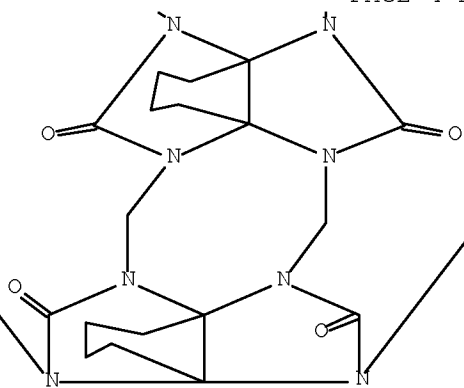


\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*



\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

PAGE 4-A

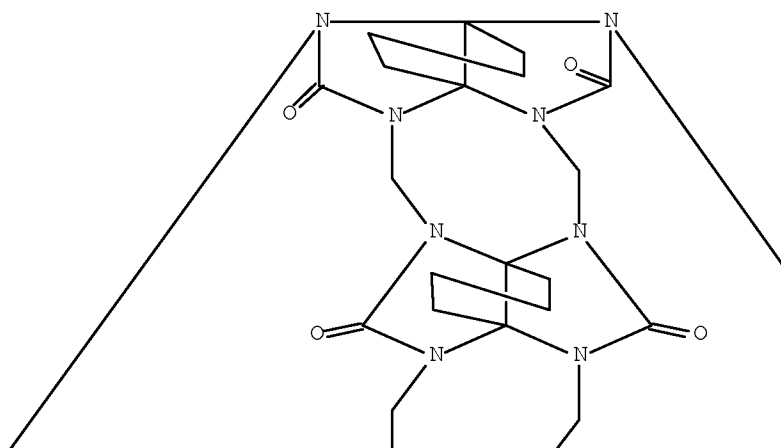


PAGE 4-B

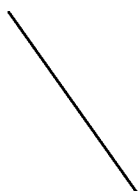
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 2,20:3,19-dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
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 ''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone (CA INDEX NAME)



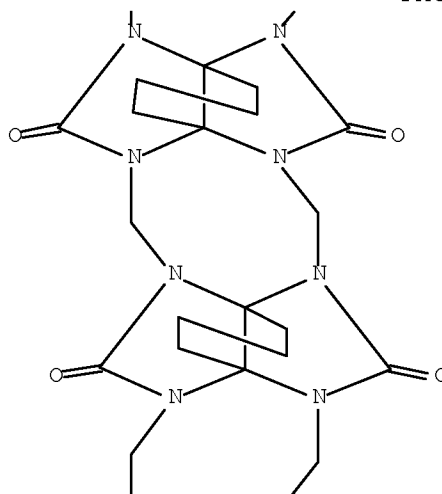
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PAGE 1-B

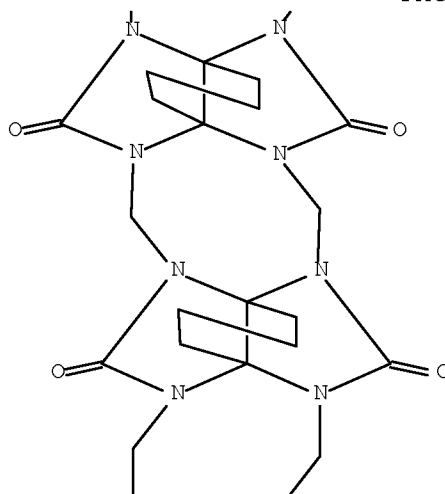


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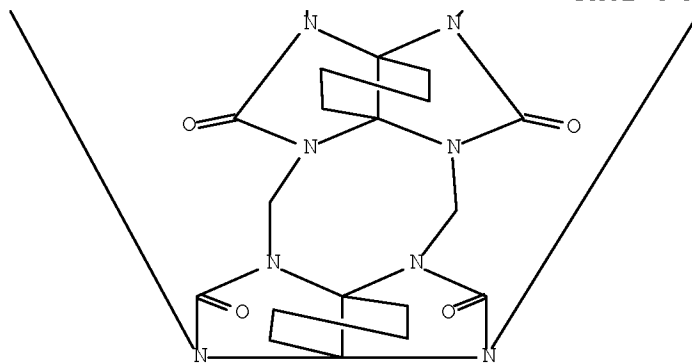
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PAGE 3-A



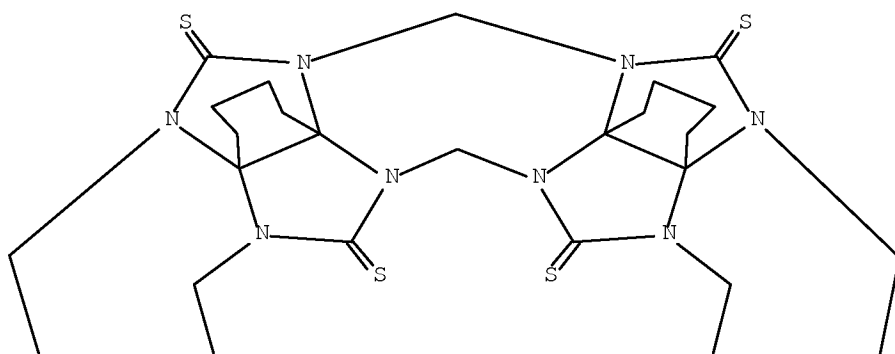
PAGE 3-B

PAGE 4-A

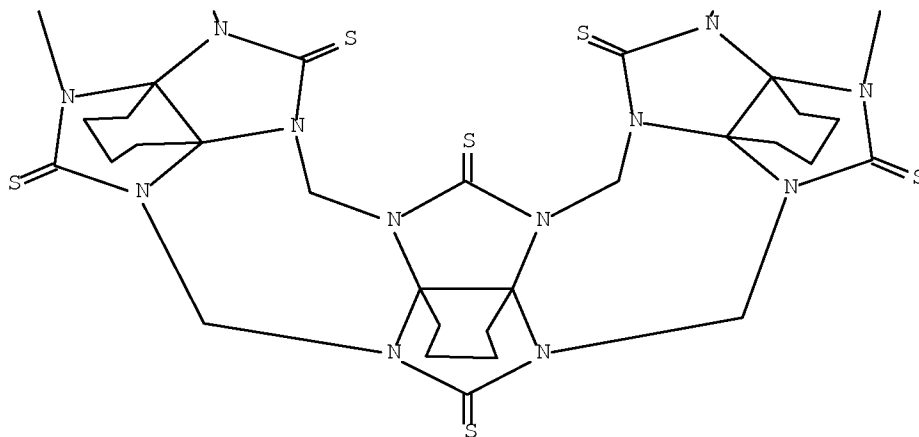


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CN INDEX NAME NOT YET ASSIGNED

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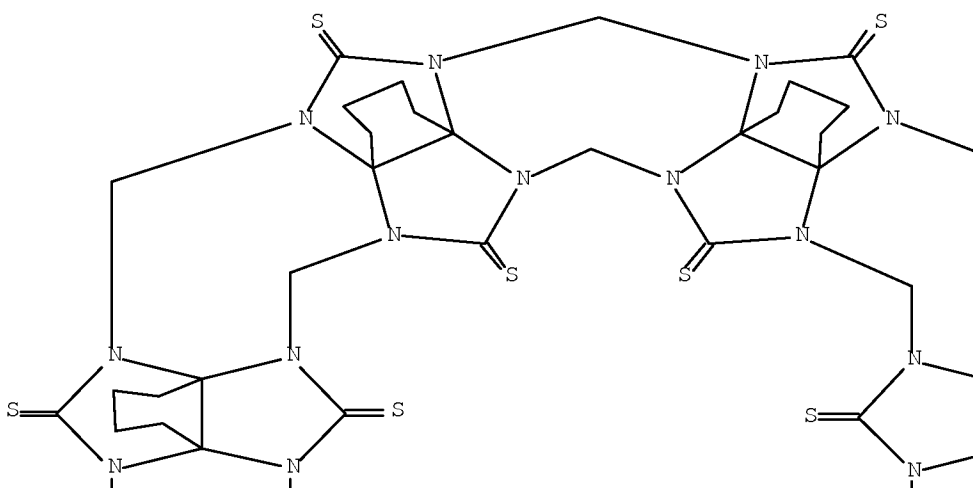


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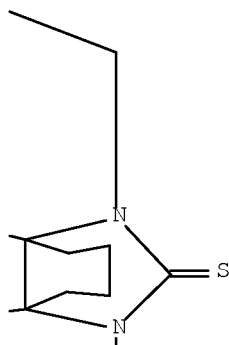


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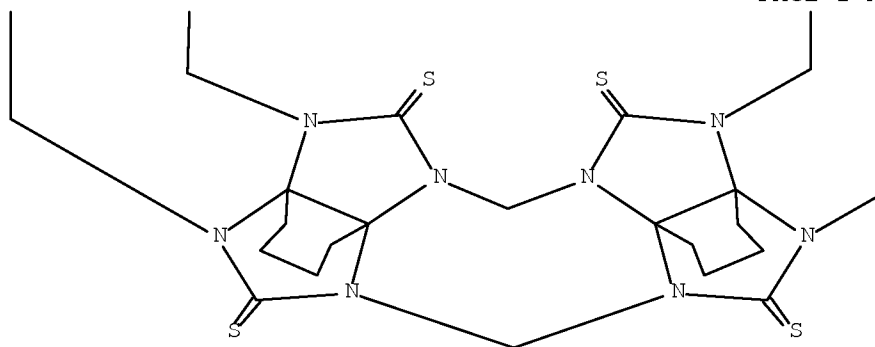
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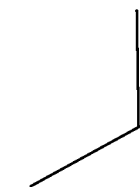
PAGE 1-B



PAGE 2-A

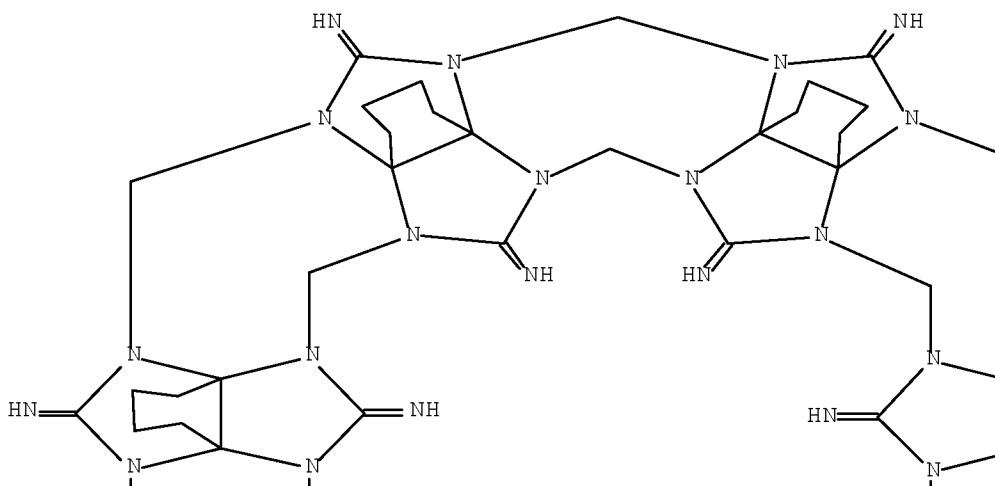


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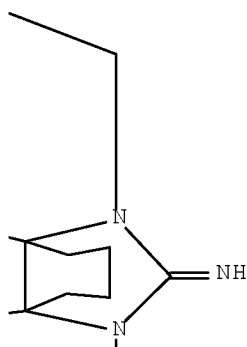


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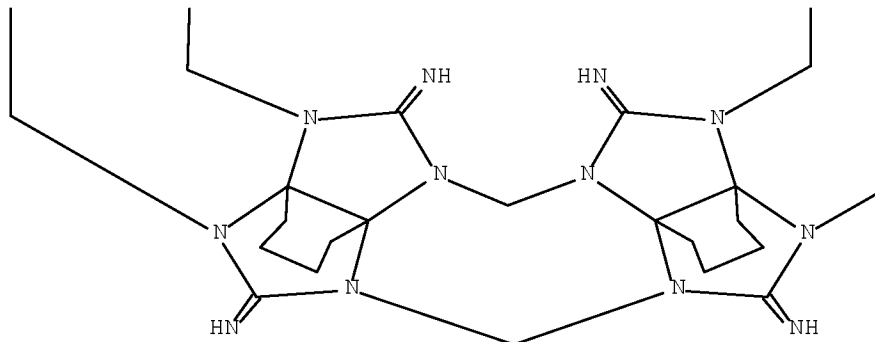
PAGE 1-A



PAGE 1-B



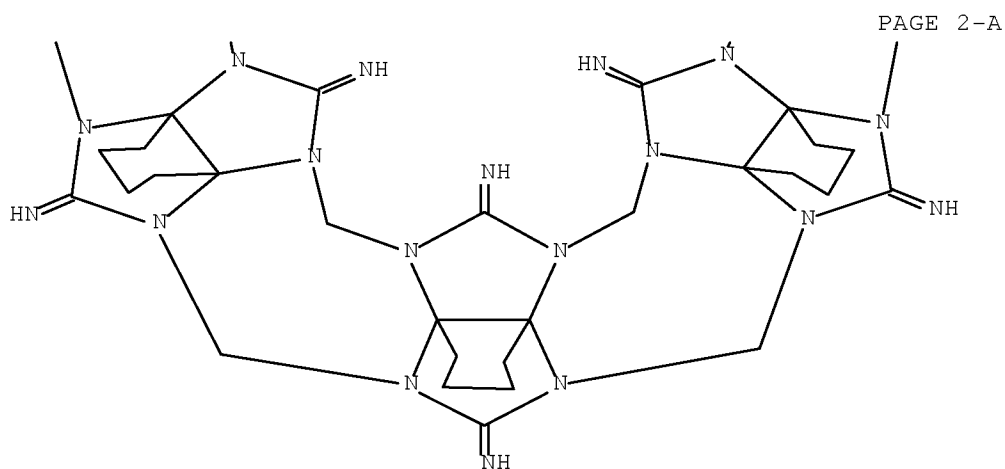
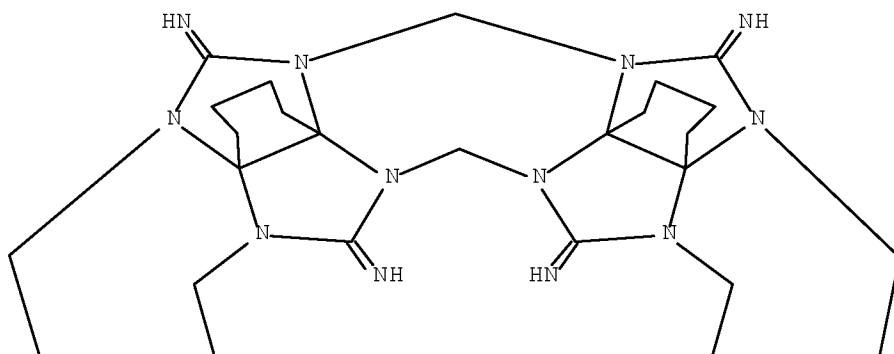
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PAGE 2-B

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CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A





IT 406498-90-6P 406498-91-7P

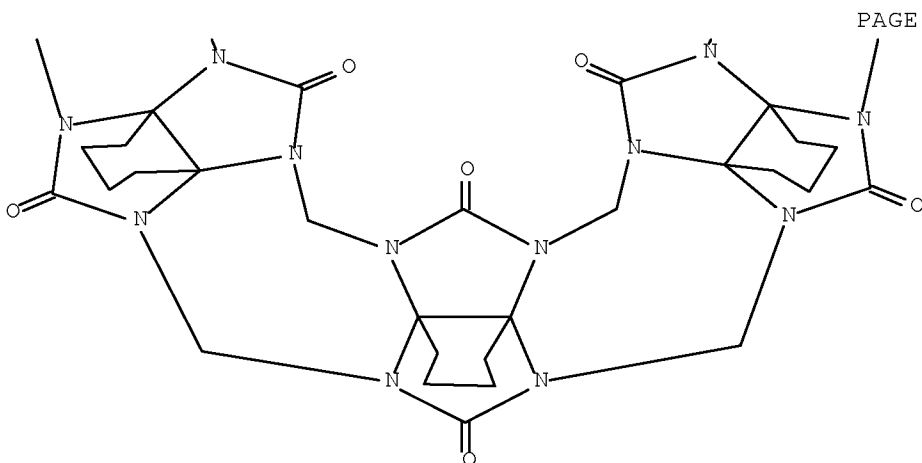
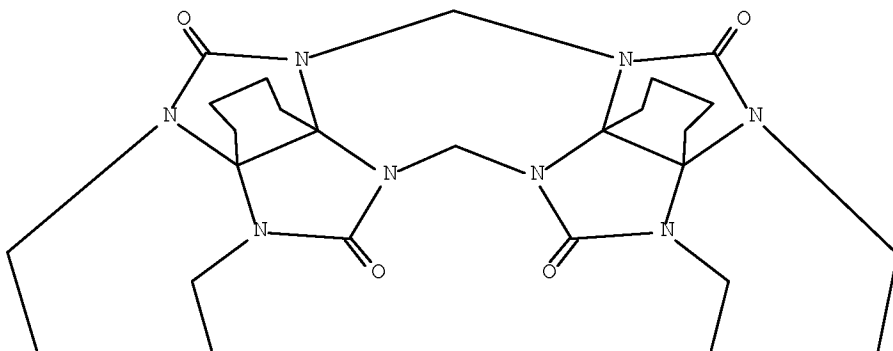
RL: AGR (Agricultural use); ARG (Analytical reagent use); BUU (Biological use, unclassified); CAT (Catalyst use); COS (Cosmetic use); FFD (Food or feed use); IMF (Industrial manufacture); MOA (Modifier or additive use); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cucurbituril derivs. and their uses in ion sensors, as extractants, additives, drug carriers, substance purifiers, and as packing material for chromatog. columns)

RN 406498-90-6 HCAPLUS

CN 8H, 20H, 29H, 36H, 43H, 50H-2, 26:30, 35:37, 42:44, 49-Tetramethano-7, 2a, 25a, 21-(methanonitrilomethanonitrilomethano)-1H, 10H, 12H, 14H, 16H, 18H, 27H, 35H, 42H-bisbenzimidazo[1'', 7''':a:5'', 6''] [1, 3, 5, 7]tetrazocino[1'', 2'':3', 3'a]benzimidazo[7'a, 1':6, 7] [1, 3, 5, 7]tetrazocino[1, 2-c:2', 1'-i]benzimidazole-1, 10, 14, 18, 27, 52, 53, 54, 56, 60-decone, eicosahydro- (CA INDEX NAME)

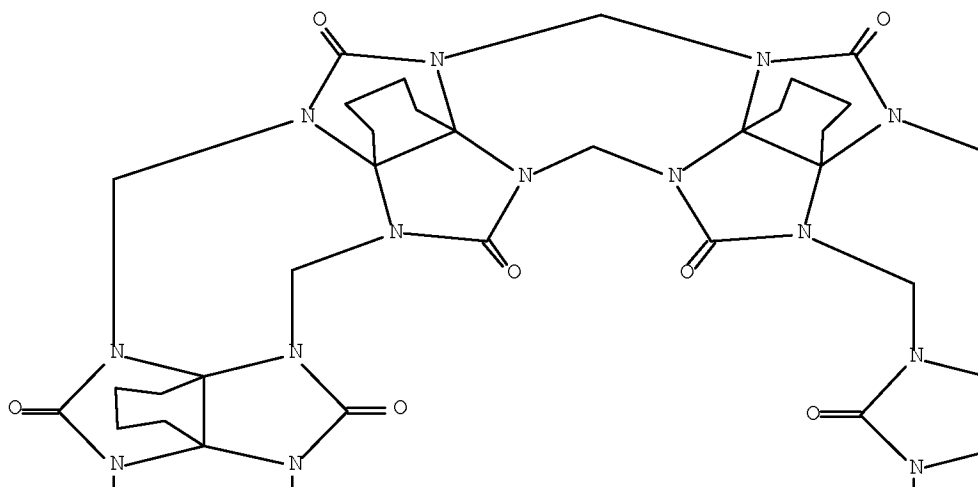
PAGE 1-A



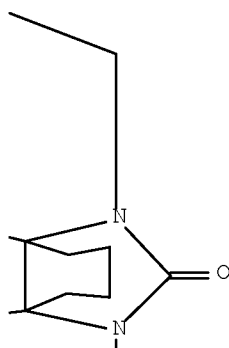
PAGE 2-A

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 1H, 10H, 12H, 14H, 16H, 18H, 20H, 22H, 31H, 39H, 46H, 53H-  
 bisbenzimidazo[1''', 7'''a:5'', 6''] [1, 3, 5, 7]tetrazocino[1'', 2'':3', 3'a]benz  
 imidazo[7'a, 1':6, 7] [1, 3, 5, 7]tetrazocino[2, 1-i:2', 1'-  
 i'] [1, 3, 5, 7]tetrazocino[1, 2-c:7, 6-c']bisbenzimidazole-  
 1, 10, 14, 18, 22, 31, 63, 64, 65, 66, 68, 72-dodecone, tetracosahydro- (CA INDEX  
 NAME)

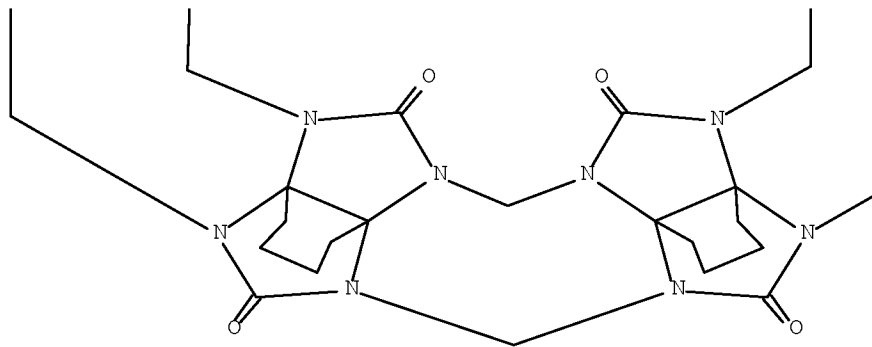
PAGE 1-A



PAGE 1-B



PAGE 2-A



PAGE 2-B

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 485368-90-9P 485368-93-2P 485368-96-5P  
 485368-99-8P 485369-06-0P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP  
 (Preparation)

(preparation of cucurbituril derivs. and their uses in ion sensors, as  
 extractants, additives, drug carriers, substance purifiers, and as  
 packing material for chromatog. columns)

RN 485368-80-7 HCAPLUS

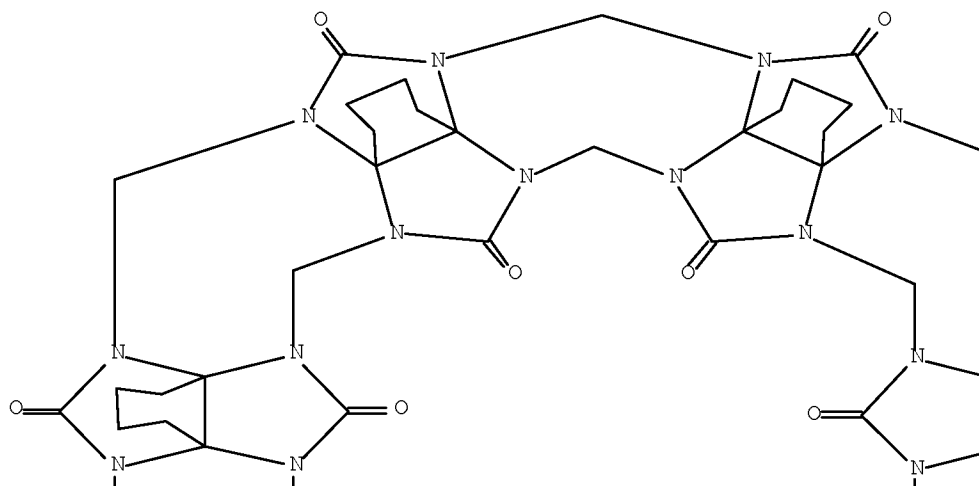
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 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i'] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone, tetracosahydro-, compd. with  
 tetrahydrofuran (1:1) (9CI) (CA INDEX NAME)

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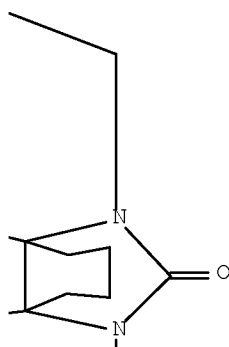
CRN 406498-91-7

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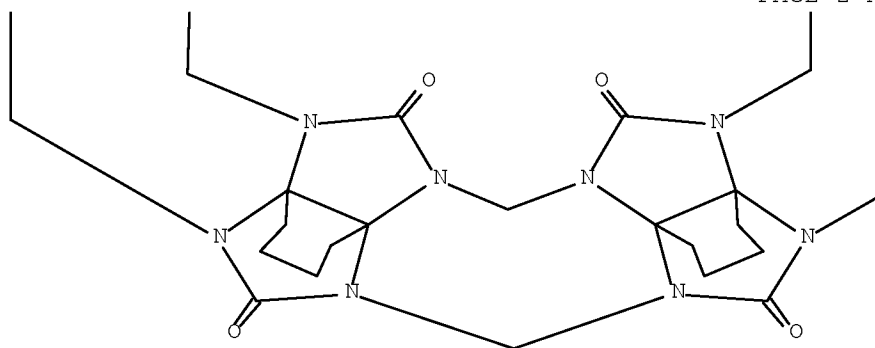
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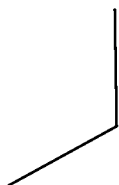
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PAGE 2-A



PAGE 2-B



CM 2

CRN 109-99-9

CMF C4 H8 O



RN 485368-84-1 HCAPLUS

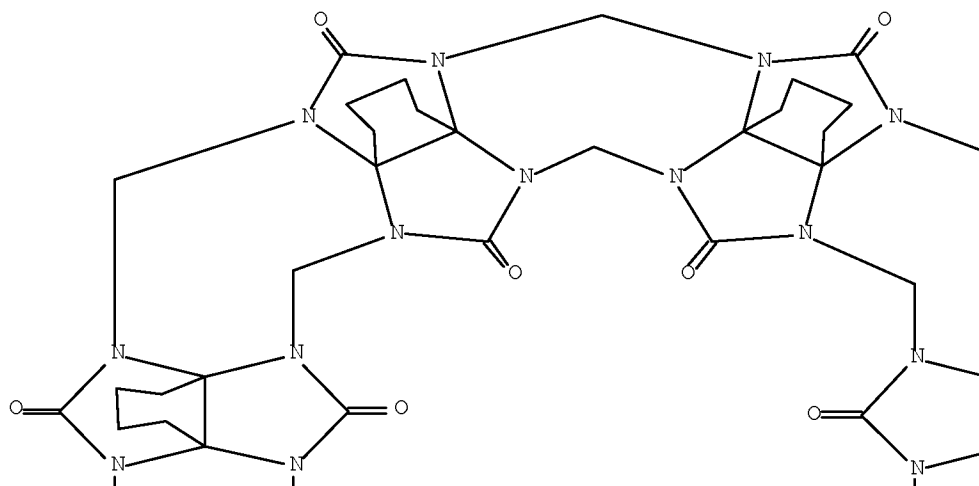
CN 8H,24H,33H,40H,47H,54H,61H-2,30:34,39:41,46:48,53:55,60-Pentamethano-  
 7,2a,29a,25-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i'] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone, tetracosahydro-, compd. with  
 cyclopentane (1:1) (9CI) (CA INDEX NAME)

CM 1

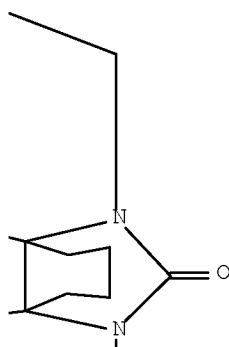
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CMF C60 H72 N24 O12

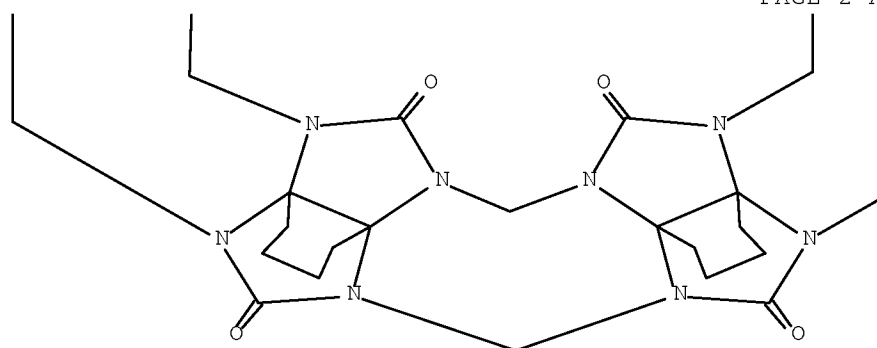
PAGE 1-A



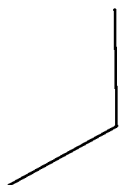
PAGE 1-B



PAGE 2-A



PAGE 2-B



CM 2

CRN 287-92-3

CMF C5 H10



RN 485368-87-4 HCAPLUS

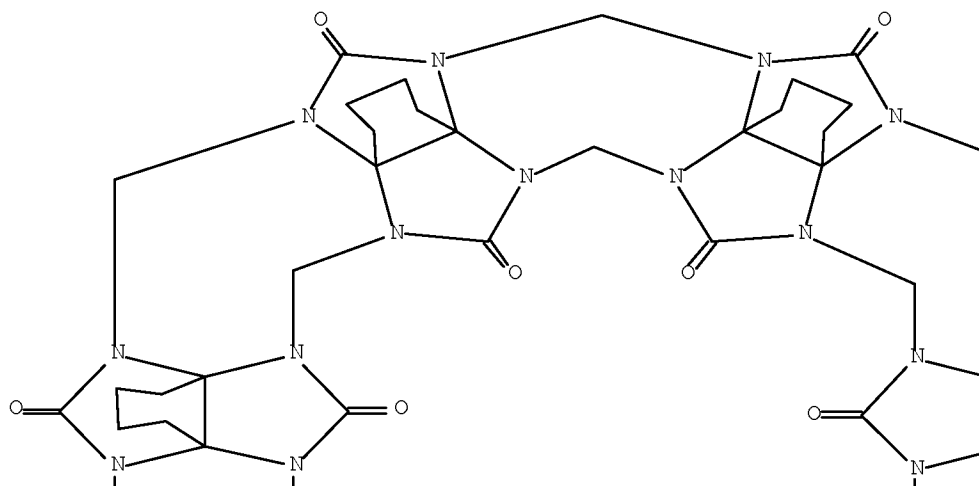
CN 8H,24H,33H,40H,47H,54H,61H-2,30:34,39:41,46:48,53:55,60-Pentamethano-  
 7,2a,29a,25-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i'] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone, tetracosahydro-, compd. with  
 4-methylbenzenamine (1:1) (9CI) (CA INDEX NAME)

CM 1

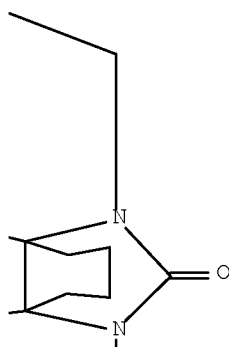
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CMF C60 H72 N24 O12

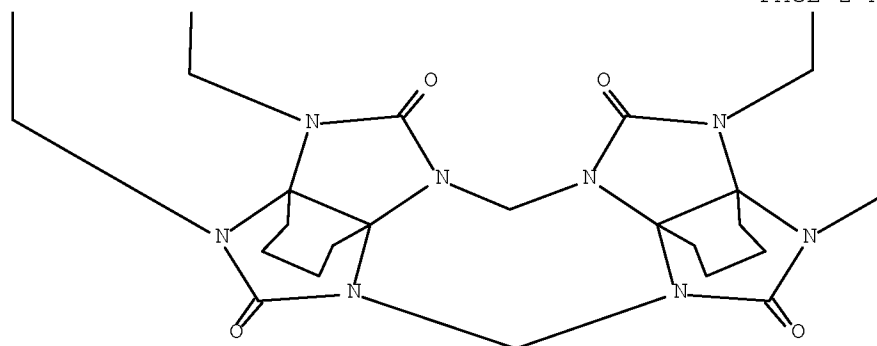
PAGE 1-A



PAGE 1-B

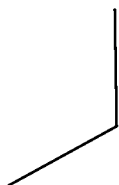


PAGE 2-A





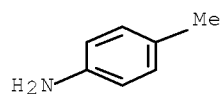
PAGE 2-B



CM 2

CRN 106-49-0

CMF C7 H9 N



RN 485368-90-9 HCAPLUS

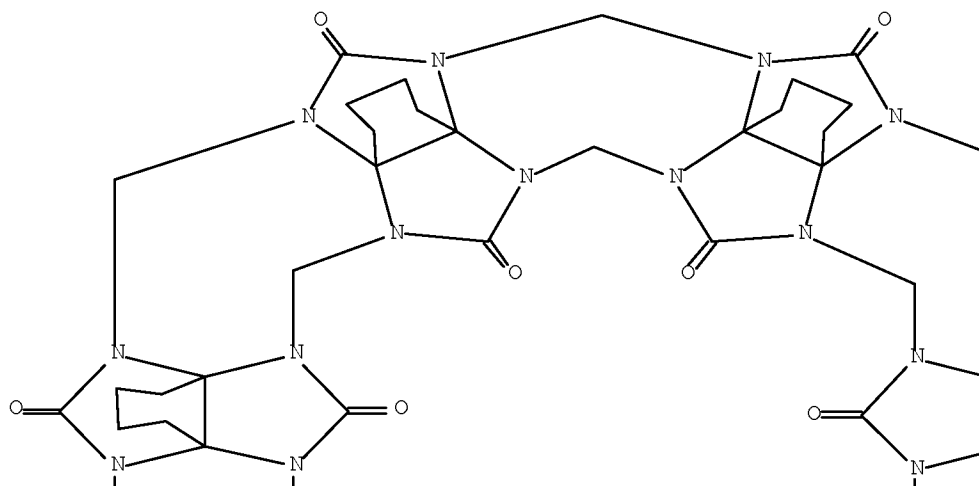
CN 8H,24H,33H,40H,47H,54H,61H-2,30:34,39:41,46:48,53:55,60-Pentamethano-  
 7,2a,29a,25-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i'] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone, tetracosahydro-, compd. with  
 4-methylbenzenamine hydrochloride (1:1) (9CI) (CA INDEX NAME)

CM 1

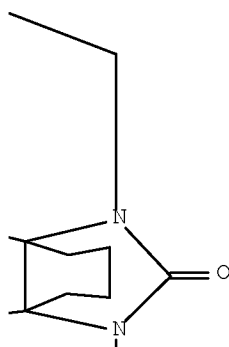
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CMF C60 H72 N24 O12

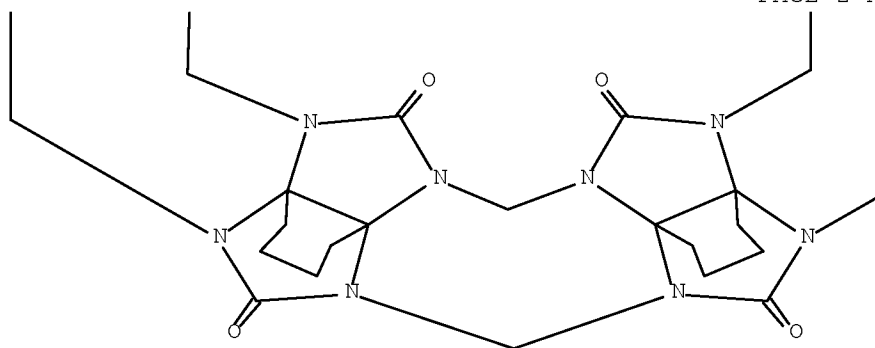
PAGE 1-A



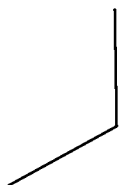
PAGE 1-B



PAGE 2-A



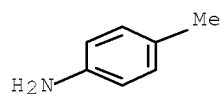
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CM 2

CRN 106-49-0

CMF C7 H9 N



RN 485368-93-2 HCAPLUS

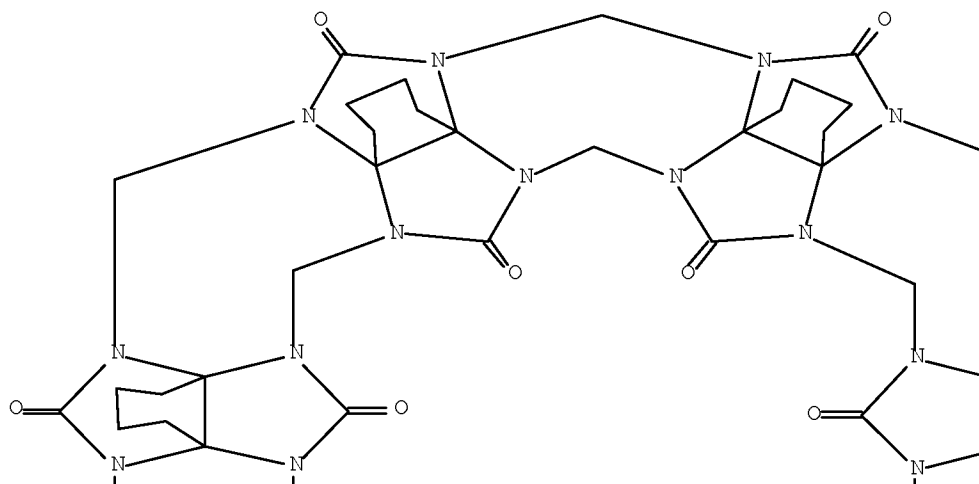
CN 8H,24H,33H,40H,47H,54H,61H-2,30:34,39:41,46:48,53:55,60-Pentamethano-  
 7,2a,29a,25-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i'] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone, tetracosahydro-, compd. with  
 1,4-benzenediamine (1:1) (9CI) (CA INDEX NAME)

CM 1

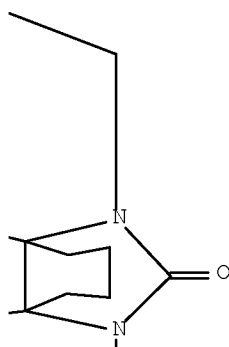
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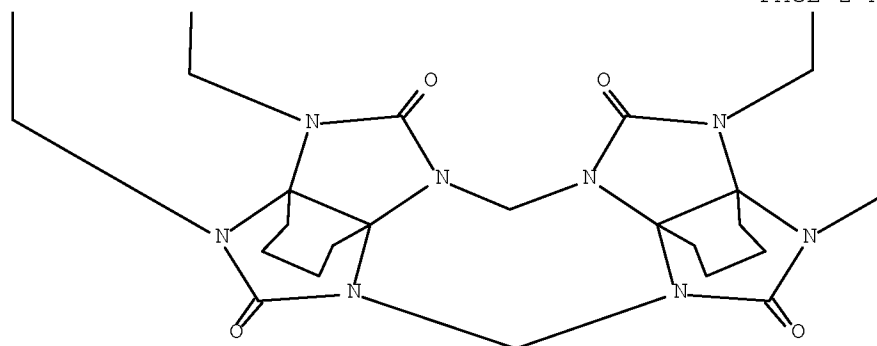
PAGE 1-A



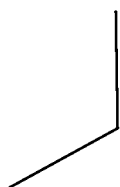
PAGE 1-B



PAGE 2-A



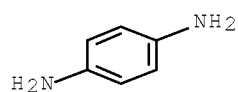
PAGE 2-B



CM 2

CRN 106-50-3

CMF C6 H8 N2



RN 485368-96-5 HCAPLUS

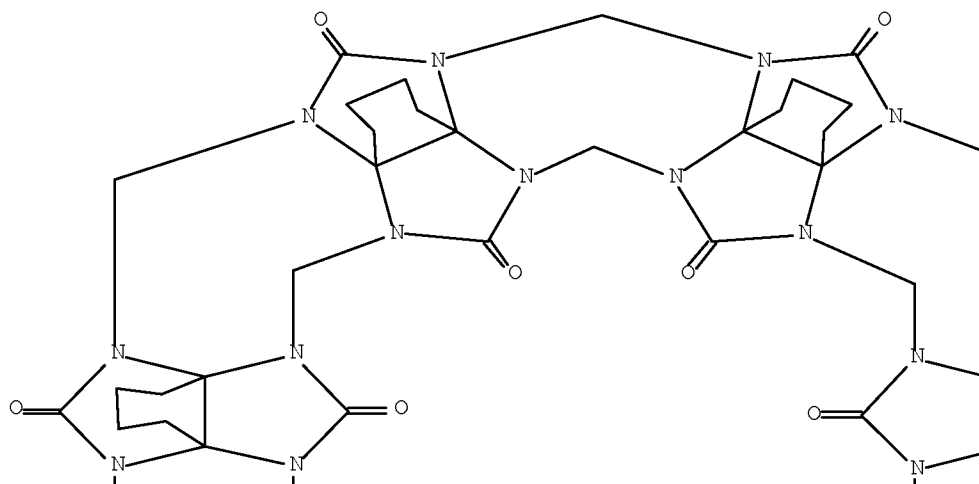
CN 8H,24H,33H,40H,47H,54H,61H-2,30:34,39:41,46:48,53:55,60-Pentamethano-  
 7,2a,29a,25-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i'] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone, tetracosahydro-, compd. with  
 2-methyl-1-propene (1:1) (9CI) (CA INDEX NAME)

CM 1

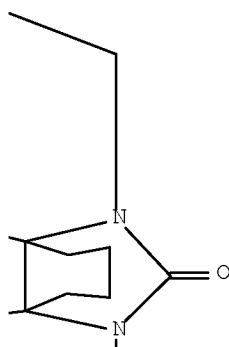
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CMF C60 H72 N24 O12

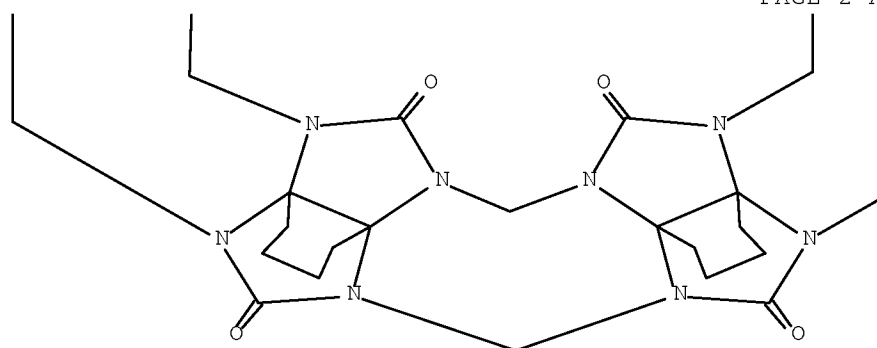
PAGE 1-A



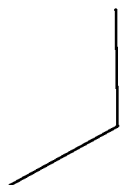
PAGE 1-B



PAGE 2-A



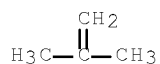
PAGE 2-B



CM 2

CRN 115-11-7

CMF C4 H8



RN 485368-99-8 HCAPLUS

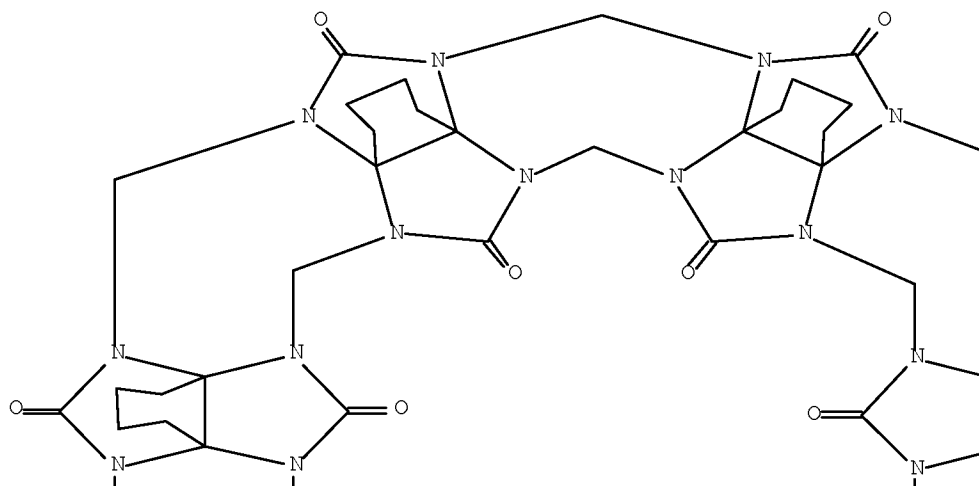
CN Ethanaminium, 2-(acetyloxy)-N,N,N-trimethyl-, chloride, compd. with  
 tetracosahydro-8H,24H,33H,40H,47H,54H,61H-2,30:34,39:41,46:48,53:55,60-  
 pentamethano-7,2a,29a,25-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,20H,22H,31H,39H,46H,53H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[2,1-i:2',1'-  
 i'] [1,3,5,7]tetrazocino[1,2-c:7,6-c']bisbenzimidazole-  
 1,10,14,18,22,31,63,64,65,66,68,72-dodecone (1:1) (9CI) (CA INDEX NAME)

CM 1

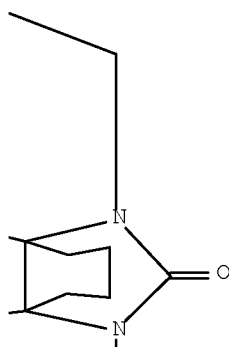
CRN 406498-91-7

CMF C60 H72 N24 O12

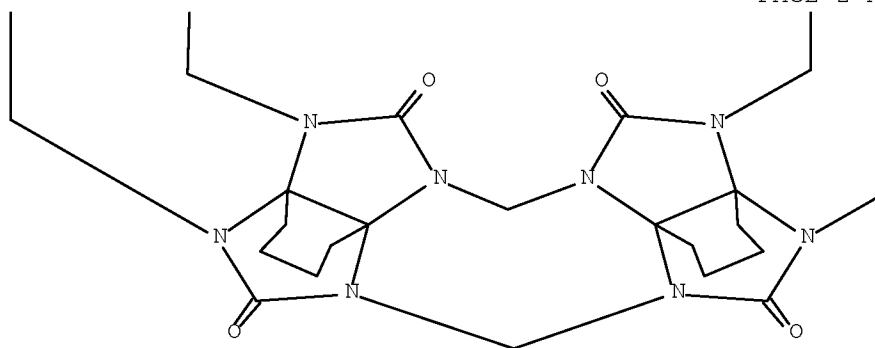
PAGE 1-A



PAGE 1-B

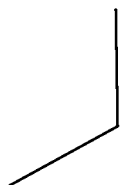


PAGE 2-A





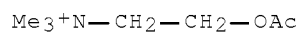
PAGE 2-B



CM 2

CRN 60-31-1

CMF C7 H16 N O2 . Cl



RN 485369-06-0 HCAPLUS

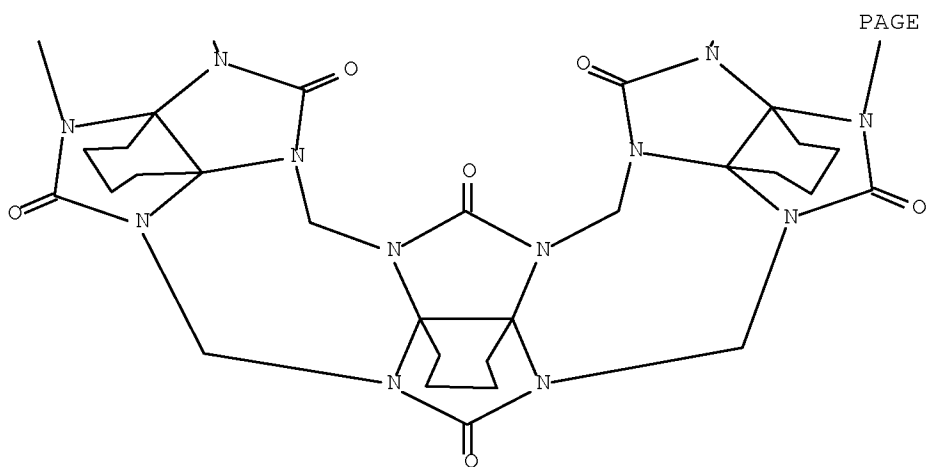
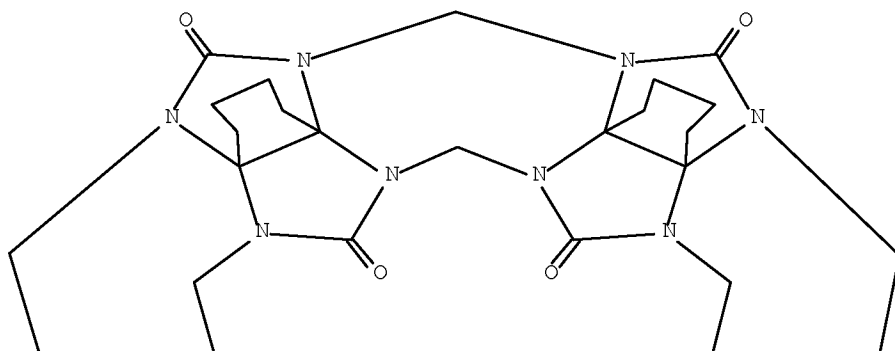
CN Borate(1-), tetraphenyl-, ammonium, compd. with  
 eicosahydro-8H,20H,29H,36H,43H,50H-2,26:30,35:37,42:44,49-tetramethano-  
 7,2a,25a,21-(methanonitrilomethanonitrilomethano)-  
 1H,10H,12H,14H,16H,18H,27H,35H,42H-  
 bisbenzimidazo[1''',7'''a:5'',6''] [1,3,5,7]tetrazocino[1'',2'':3',3'a]benz  
 imidazo[7'a,1':6,7] [1,3,5,7]tetrazocino[1,2-c:2',1'-i]benzimidazole-  
 1,10,14,18,27,52,53,54,56,60-decone (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 406498-90-6

CMF C50 H60 N20 O10

PAGE 1-A



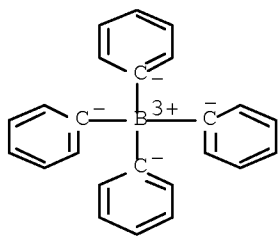
PAGE 2-A

CM 2

CRN 14637-34-4

CMF C24 H20 B . H4 N

CCI CCS



OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)  
 RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 24 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:927306 HCAPLUS Full-text

DN 138:8757

TI Production of inorganic cucurbituril composites and use as absorbents and catalyst supports

IN Richter, Andreas M.; Felicetti, Michael

PA Syntec Gesellschaft fuer Chemie und Technologie der Informationsaufzeichnung mbH, Germany

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

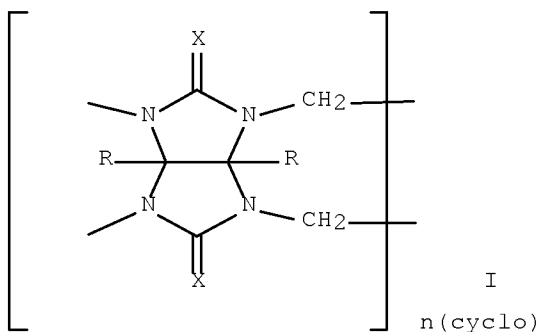
DT Patent

LA German

FAN.CNT 1

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	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW:				
	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10126394	A1	20021205	DE 2001-10126394	20010528 <--
	AU 2002317682	A1	20021209	AU 2002-317682	20020527 <--
	EP 1397205	A2	20040317	EP 2002-747180	20020527 <--
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 20040147396	A1	20040729	US 2003-479379	20031125 <--
PRAI	DE 2001-10126394	A	20010528	<--	
	WO 2002-DE1980	W	20020527	<--	

GI



AB The invention relates to novel inorg. absorbent composites consisting of an open-pore, solid, inorg. matrix, comprising cucurbiturils of general formula (I) which are chemical linked in the matrix. Said cucurbiturils form a macrocycle having a cage structure, consisting of n repeating units, wherein n is a whole number 5, 6, 7 or 8, R represents hydrogen or C1-C5 alkyl, and X represents O, S or N. X and R can be the same or different. Said composites are produced by reacting cucurbituril with an inorg. matrix-forming agent, such as silica gel, at 15 to 90°C in a liquid medium. The inventive composites can be used as absorption materials and catalyst supports.

IT 283175-97-3, Cucurbit[6]uril

RL: RCT (Reactant); RACT (Reactant or reagent)

(production of inorg. cucurbituril composites and use as absorbents and catalyst supports)

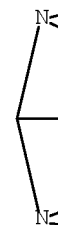
RN 283175-97-3 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-

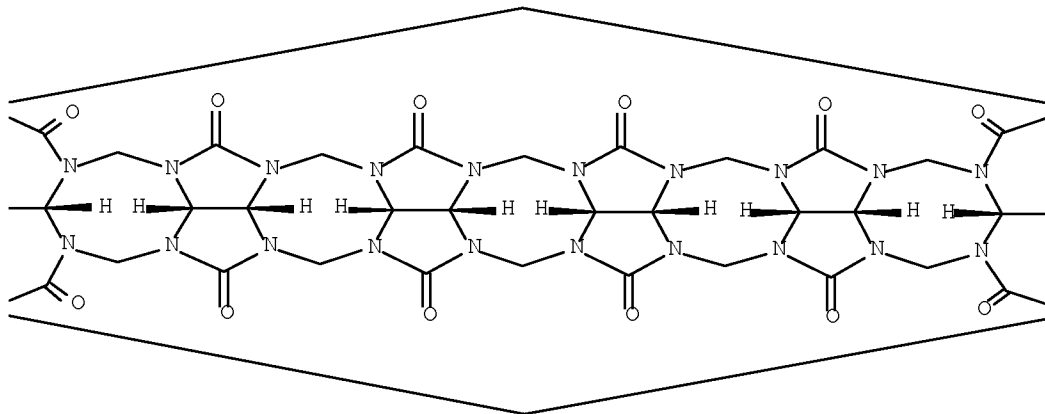
5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-, stereoisomer (CA  
INDEX NAME)

Relative stereochemistry.

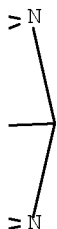
PAGE 1-A



PAGE 1-B



PAGE 1-C



OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)  
 RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 25 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2002:426632 HCAPLUS Full-text  
 DN 137:21835  
 TI Gas filter material containing cyclodextrins and/or cucurbituril loaded  
 with olfactory materials or biocides  
 IN Blum, Horst; Sick, Stefan; Salow, Hartmut; Kaussen, Manfred  
 PA Papierfabrik Schoeller & Hoesch GmbH & Co. KG, Germany  
 SO Eur. Pat. Appl., 11 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1210966	A1	20020605	EP 2001-122765	20010921 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	DE 10059835	A1	20020613	DE 2000-10059835	20001201 <--

PRAI DE 2000-10059835 A 20001201 <--

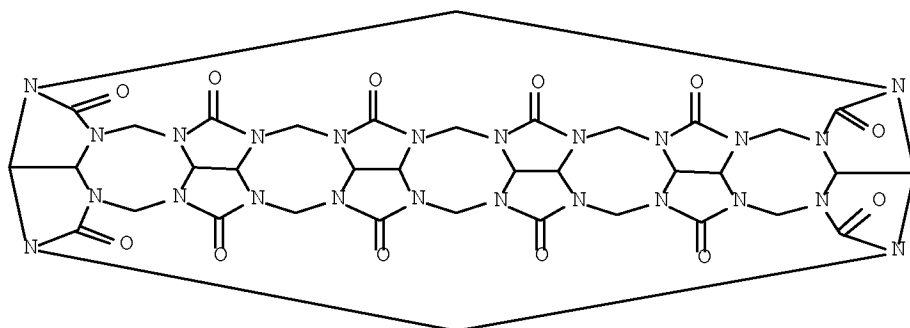
AB A new gas filter material from natural or synthetic fibers or combination thereof contains relative to weight by unit area of 0.01-60 weight % macrocyclic organic cage compds such as cyclodextrins and/or cucurbituril. The composition meets tech. requirements for stability and porosity and can be used loaded or not loaded for vacuum bags, vacuum exhaust gas filters and/or as gas filter material in air conditioners and climate control units. The filter material is loaded with with olfactory materials or biocides using water, without an addnl. binder. As function the filter is suitable to sep. or enrich substances. The scented substances provide pleasant additives for the airstream emitting from the filter while biocide loading can inhibit and decompose the growth of fungi and bacteria.

IT 80262-44-8, Cucurbituril 283175-97-3,  
Cucurbit-6-uril

RL: TEM (Technical or engineered material use); USES (Uses)  
(gas filter material with donor and/or acceptor function)

RN 80262-44-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)

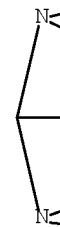


RN 283175-97-3 HCAPLUS

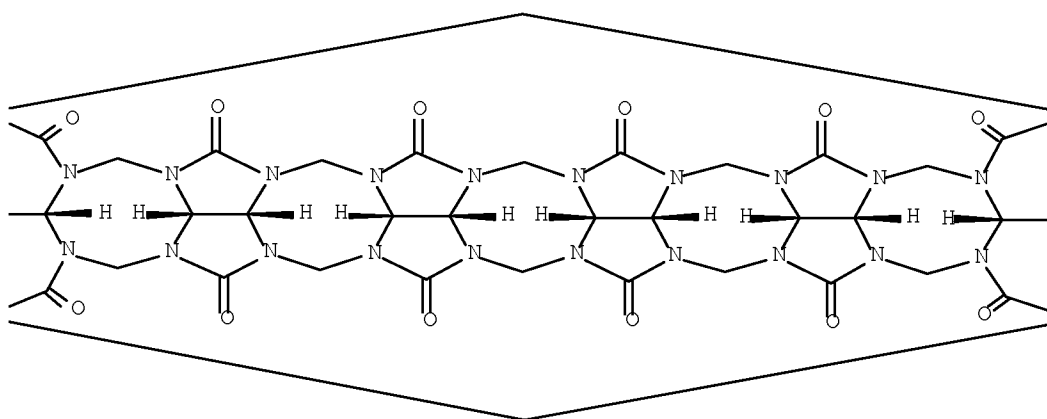
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5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro-, stereoisomer (CA  
INDEX NAME)

Relative stereochemistry.

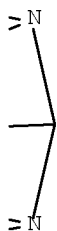
PAGE 1-A



PAGE 1-B



PAGE 1-C



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)  
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 26 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:157036 HCAPLUS Full-text

DN 136:200050

TI Procedure for the production of cucurbituril from acetylenediurea

IN Richter, Andreas M.; Felicetti, Michael

PA Syntec Gesellschaft Fuer Chemie Und Technologie Der Informationsaufzeichnung Mbh, Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10040242	A1	20020228	DE 2000-10040242	20000814 <--
PRAI	DE 2000-10040242		20000814	<--	
OS	CASREACT 136:200050				

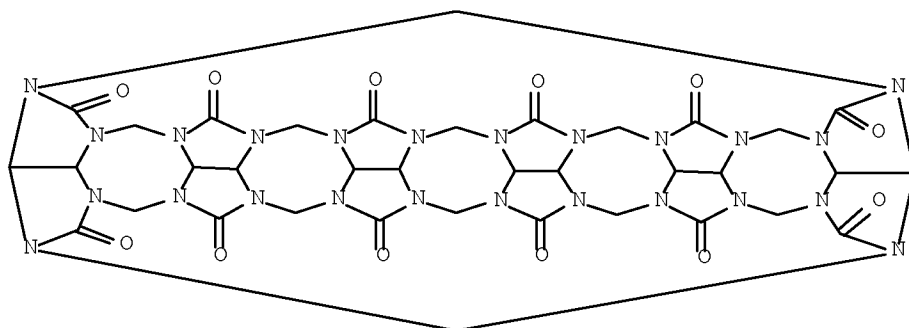
AB Procedure for the production of cucurbituril from acetylenediurea, by dissoln. of acetylenediurea in concentrated sulfuric acid under cooling and subsequent addition of formaldehyde, heating the solution at constant temperature within a certain period.

IT 80262-44-8P, Cucurbituril

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of cucurbituril from acetylenediurea)

RN 80262-44-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
, 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L45 ANSWER 27 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:388883 HCAPLUS Full-text

DN 135:6819

TI Recycling of residual dyeing bath using cucurbituril or its precursors

IN Taketsuji, Koji; Ito, Ryutaro

PA Hakuto Co., Ltd., Japan; Nagase Techno Color K. K.

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF



DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001146690	A	20010529	JP 1999-333018	19991124 <--
PRAI	JP 1999-333018		19991124	<--	

AB The dyeing bath containing dyes and dyeing aids is contacted with glycoluril-HCHO condensates, separated into dye-taken condensates and water to return water to the dyeing process. The dye-taken condensates are treated with (A)  $\geq 1$  water-soluble organic solvents selected from formamide, DMF, DMSO, ethylene glycol, propylene glycol, diethylene glycol, triethylene glycol, and tetraethylene glycol and/or (B) 1/10,000-1/10 N aqueous solution of NaOH, KOH, Na<sub>2</sub>CO<sub>3</sub>, K<sub>2</sub>CO<sub>3</sub>, NaHCO<sub>3</sub>, and/or KHCO<sub>3</sub> to release the dye from the condensates. Thus, an aqueous solution containing 500 ppm Cibacron Red 4G-E-01 (reactive dye) and 10% Na<sub>2</sub>SO<sub>4</sub> was mixed with 2000 ppm cucurbituril precursor to give decolorized water with little change of other component compns.

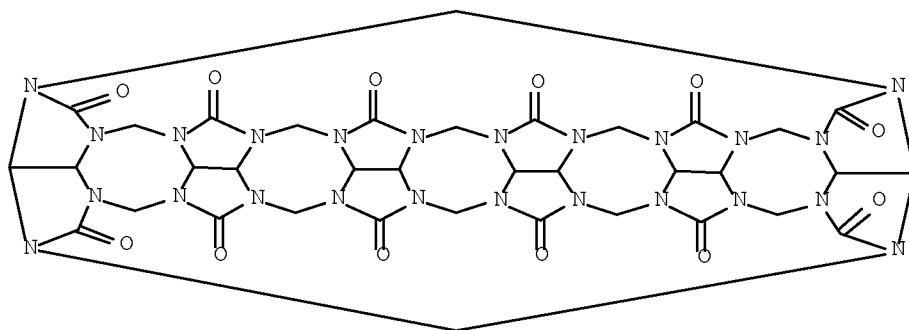
IT 80262-44-8P, Cucurbituril

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(recycling of residual dyeing bath using cucurbituril or its precursors as decolorizing agents)

RN 80262-44-8 HCAPLUS

CN 1H,4H,14H,17H-2,16:3,15-Dimethano-5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd'd']dipentalene-1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L45 ANSWER 28 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:297547 HCAPLUS Full-text

DN 134:326547

TI Cucurbituril derivatives, their preparation and uses

IN Kim, Kimoon; Kim, Jaheon; Jung, In-sun; Kim, Soo-young; Lee, Eunsung; Kang, Jin-koo

PA Pohang University of Science and Technology Foundation, S. Korea

SO Eur. Pat. Appl., 26 pp.

CODEN: EPXXDW

DT Patent

LA English

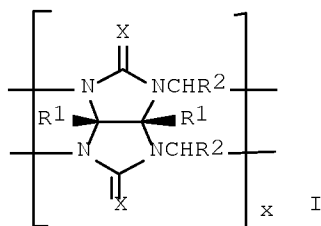
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1094065	A2	20010425	EP 2000-305458	20000628 <--
	EP 1094065	A3	20011010		
	EP 1094065	B1	20031217		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	KR 2001039662	A	20010515	KR 2000-33026	20000615 <--
	US 6365734	B1	20020402	US 2000-605635	20000628 <--
	JP 2001122877	A	20010508	JP 2000-200196	20000630 <--
	JP 3432483	B2	20030804		
	US 20020133003	A1	20020919	US 2002-92468	20020308 <--
	US 6639069	B2	20031028		
	US 20040039195	A1	20040226	US 2003-646722	20030825 <--
	US 7160466	B2	20070109		
PRAI	KR 1999-45842	A	19991021	<--	
	KR 2000-33026	A	20000615	<--	
	US 2000-605635	A3	20000628	<--	
	US 2002-92468	A3	20020308	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS CASREACT 134:326547; MARPAT 134:326547

GI



AB Cucurbituril derivs. I [X = O, S, NH; R1, R2 = H, alkyl, alkenyl, alkynyl, alkylthio, acyloxy, hydroxyalkyl, alkylsilyl, alkoxy, haloalkyl, NO2, alkylamino, amino, aminoalkyl, cycloalkyl, heterocyclic, aryl, heteroaryl; x = 4-20; I, x = 6, R1 = R2 = H, X = O; x = 5, R1 = Me, R2 = H, X = O, excluded] were prepared. The cucurbituril derivs. are easily prepared as a mixture by one of three methods, and each cucurbituril derivative can be separated from the mixture by fractional crystallization. I or their mixts. are very useful in removing dyes and heavy metal ions dissolved in water or waste water. They also bind heavy metals, radioactive isotopes, CO, CO2, NOx, SOx, amines, amino acids, nucleic acid bases, alkali metals and alkaline earth metals.

IT 336609-32-6 336609-33-7 336609-35-9  
 336609-36-0 336609-37-1 336609-38-2  
 336609-39-3 336609-40-6 336609-42-8  
 336609-43-9 336609-44-0 336609-45-1  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (cucurbituril complexation of dyes)

RN 336609-32-6 HCAPLUS

CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-octacosazabispentaleno[1''',6''':5''',6''',7''']cycloocta[1''',2''',3''':3''',4''']pentaleno[1''',6''':5''',6''',7''']cycloocta[1'',2'',3'':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-

gh]pentalenetetradecone, tetradecahydro-,  
 (2a $\alpha$ , 17a $\alpha$ , 19b $\alpha$ , 21b $\alpha$ , 21c $\alpha$ , 23b $\alpha$ , 23c. $\alpha$ ph  
 a., 25b $\alpha$ , 25c $\alpha$ , 27b $\alpha$ , 27c $\alpha$ , 29b $\alpha$ , 29c $\alpha$ , 30b. $\alpha$   
 lpha.)-, compd. with Direct Red 5B (1:1) (9CI) (CA INDEX NAME)

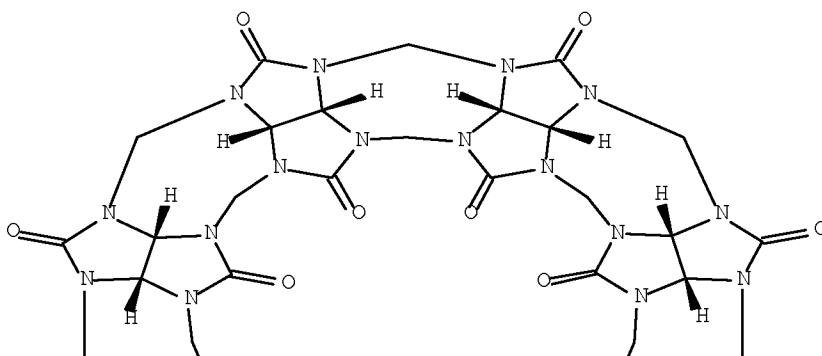
CM 1

CRN 259886-50-5

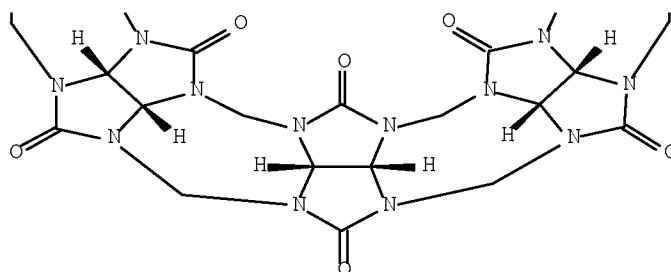
CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

CRN 134092-10-7

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 336609-33-7 HCAPLUS

CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19

a, 20a, 21a, 22a, 23a, 24a, 25a, 26a, 27a, 28a, 29a, 30a-  
 octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
 ''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''',6''',7''']cycloocta[1''',2''',3''':  
 3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-  
 gh]pentalenetetradecone, tetradecahydro-,  
 (2a $\alpha$ , 17a $\alpha$ , 19b $\alpha$ , 21b $\alpha$ , 21c $\alpha$ , 23b $\alpha$ , 23c.alph  
 a., 25b $\alpha$ , 25c $\alpha$ , 27b $\alpha$ , 27c $\alpha$ , 29b $\alpha$ , 29c $\alpha$ , 30b.a  
 lpha.)-, compd. with Reactive Blue HE-G (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 336183-70-1

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

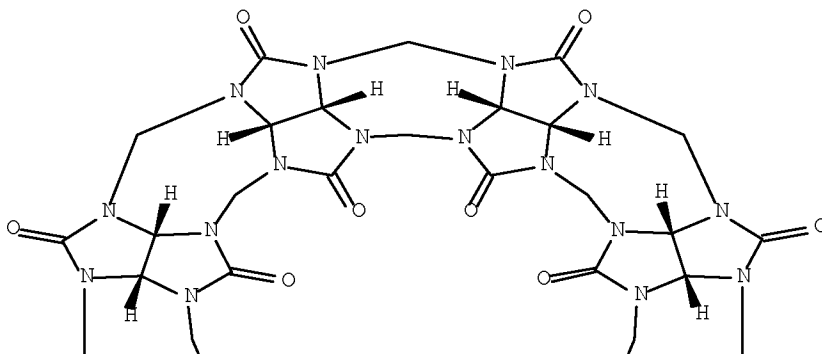
CM 2

CRN 259886-50-5

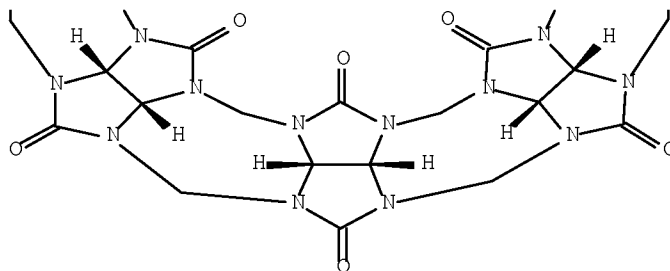
CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



RN 336609-35-9 HCAPLUS  
 CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
 a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
 octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
 ''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3''':  
 3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-  
 gh]pentalenetetradecone, tetradecahydro-,  
 (2a $\alpha$ ,17a $\alpha$ ,19b $\alpha$ ,21b $\alpha$ ,21c $\alpha$ ,23b $\alpha$ ,23c.alph  
 a.,25b $\alpha$ ,25c $\alpha$ ,27b $\alpha$ ,27c $\alpha$ ,29b $\alpha$ ,29c $\alpha$ ,30b.a  
 lpha.)-, compd. with Reactive Navy Blue HE-R (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 336184-03-3  
 CMF Unspecified  
 CCI MAN

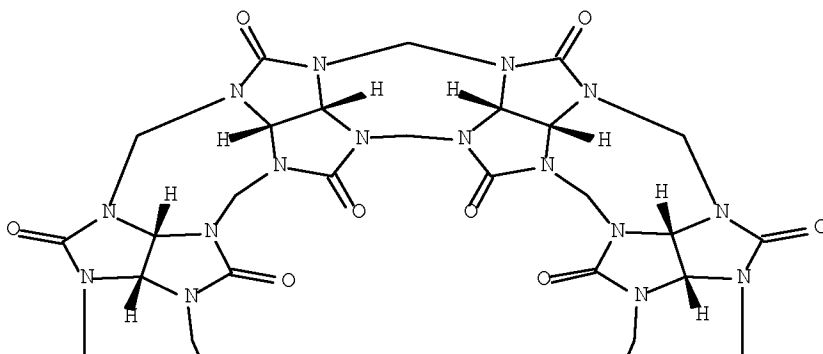
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CM 2

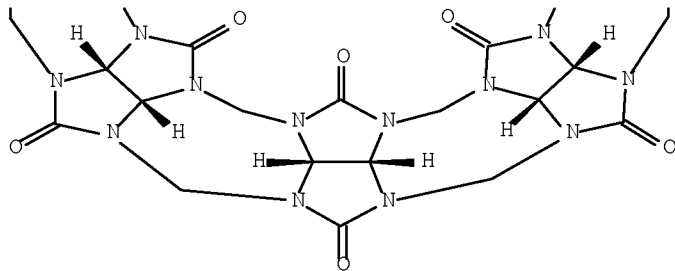
CRN 259886-50-5  
 CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



RN 336609-36-0 HCAPLUS  
 CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
 a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
 octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
 ''',3''''':3''''',4''''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3''':  
 3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-  
 gh]pentalenetetradecone, tetradecahydro-,  
 (2aα,17aα,19bα,21bα,21cα,23bα,23c.αph  
 a.,25bα,25cα,27bα,27cα,29bα,29cα,30b.a  
 lpha.)-, compd. with Disperse Yellow E 3 (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 336185-14-9  
 CMF Unspecified  
 CCI MAN

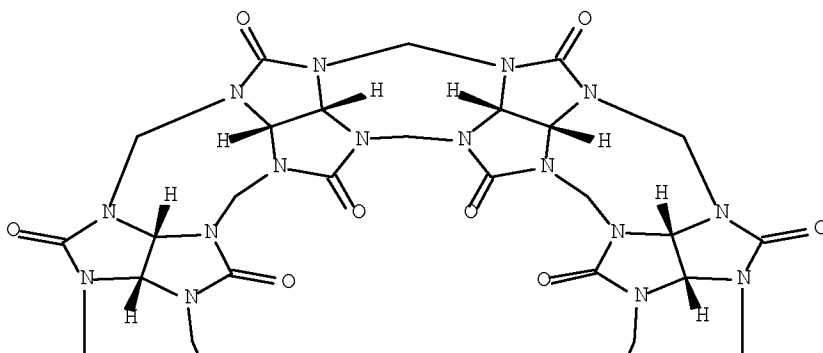
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CM 2

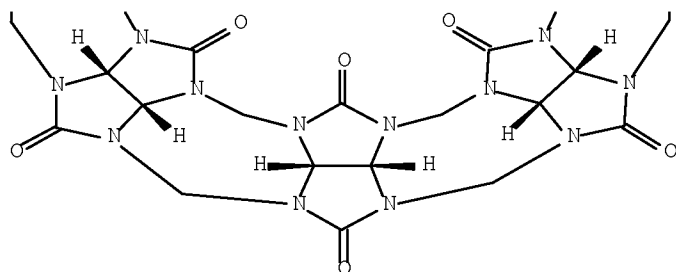
CRN 259886-50-5  
 CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



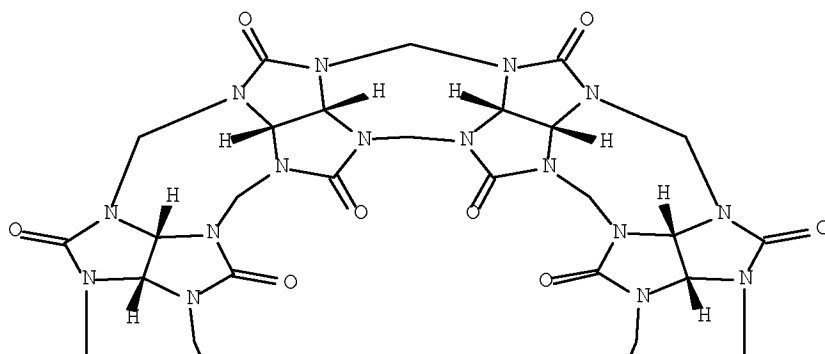
RN 336609-37-1 HCAPLUS  
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 a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
 octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
 ''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''',6'',7'']cycloocta[1'',2'',3''':  
 3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-  
 gh]pentalenetetradecone, tetradecahydro-,  
 (2aα,17aα,19ba,21ba,21ca,23ba,23c.αph  
 a.,25ba,25ca,27ba,27ca,29ba,29ca,30b.a  
 lpha.)-, compd. with 4,11-diamino-2-(3-methoxypropyl)-1H-naphth[2,3-  
 f]isoindole-1,3,5,10(2H)-tetrone (1:1) (9CI) (CA INDEX NAME)

CM 1

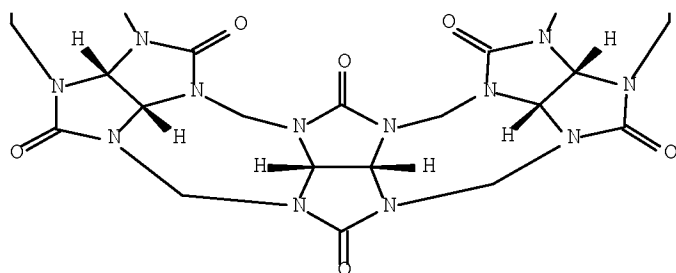
CRN 259886-50-5  
 CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



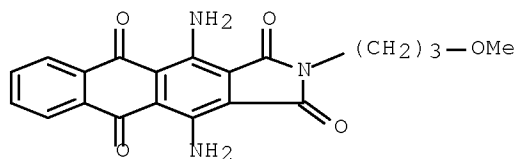
PAGE 2-A



CM 2

CRN 12217-80-0

CMF C20 H17 N3 O5



RN 336609-38-2 HCAPLUS

CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
''',3''''':3''',4''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':  
3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-  
gh]pentalenetetradecone, tetradecahydro-,  
(2aα,17aα,19bα,21bα,21cα,23bα,23c.αph  
a.,25bα,25cα,27bα,27cα,29bα,29cα,30b.a  
lpha.)-, compd. with C.I. Direct Orange 34 (1:1) (9CI) (CA INDEX NAME)

CM 1

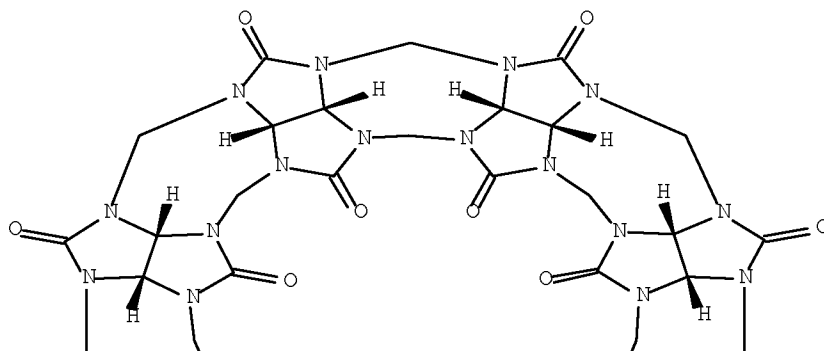
CRN 259886-50-5

CMF C42 H42 N28 O14

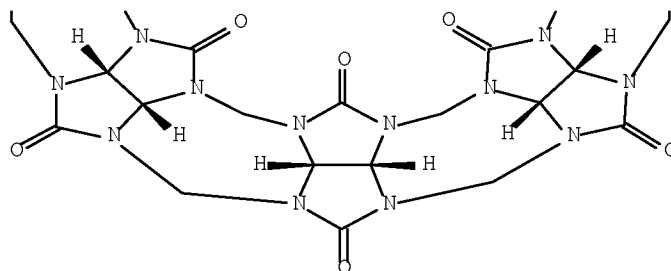
Relative stereochemistry.



PAGE 1-A



PAGE 2-A



CM 2

CRN 12222-37-6

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 336609-39-3 HCAPLUS

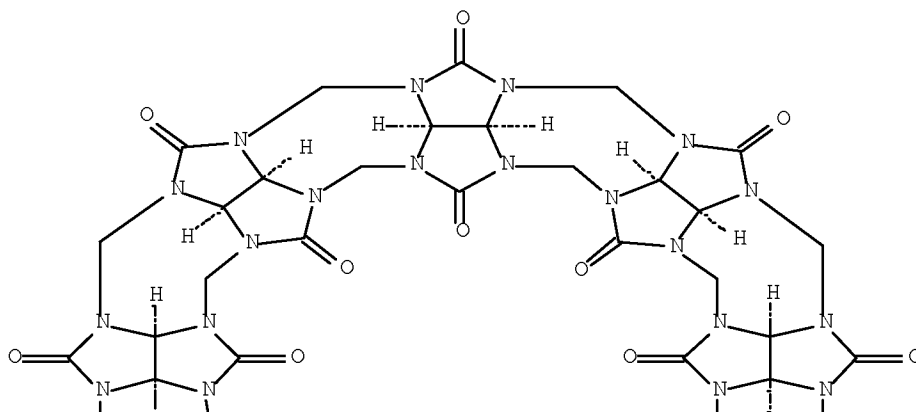
CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontaaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
 2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2'',3  
 ''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-,  
 (2aα,19aα,21bα,23bα,23cα,25bα,25c.αph  
 a.,27bα,27cα,29bα,29cα,31bα,31cα,33b.a  
 lpha.,33cα,34bα)-, compd. with Direct Red 5B (1:1) (9CI) (CA  
 INDEX NAME)

CM 1

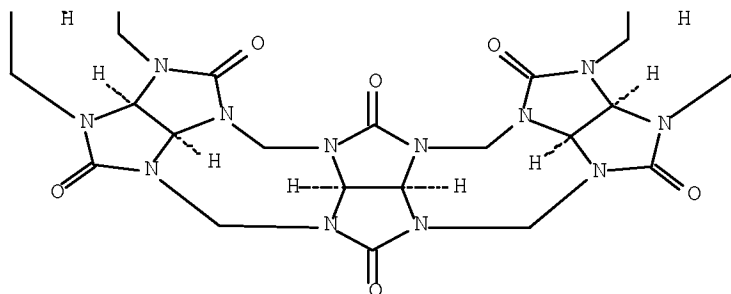
CRN 259886-51-6  
 CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

CRN 134092-10-7  
 CMF Unspecified  
 CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

RN 336609-40-6 HCAPLUS

CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
 2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3  
 ''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-,  
 (2aα,19aα,21bα,23bα,23cα,25bα,25c.αph

a., 27ba, 27ca, 29ba, 29ca, 31ba, 31ca, 33b.a  
 lpha., 33ca, 34ba)-, compd. with Reactive Blue HE-G (1:1) (9CI)  
 (CA INDEX NAME)

CM 1

CRN 336183-70-1

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

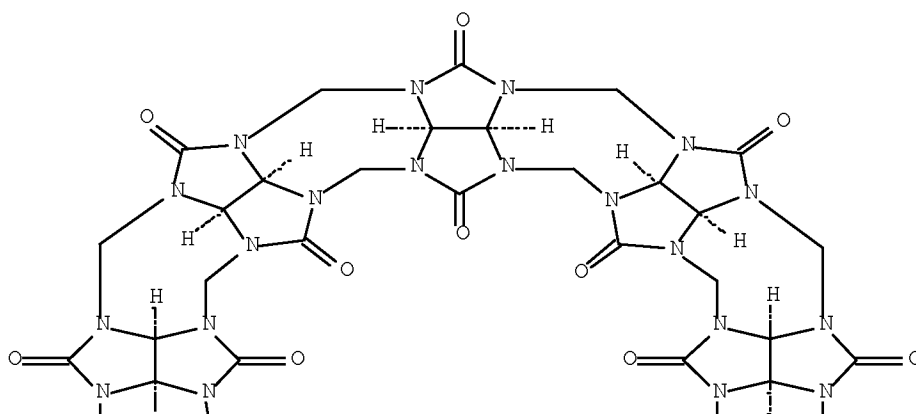
CM 2

CRN 259886-51-6

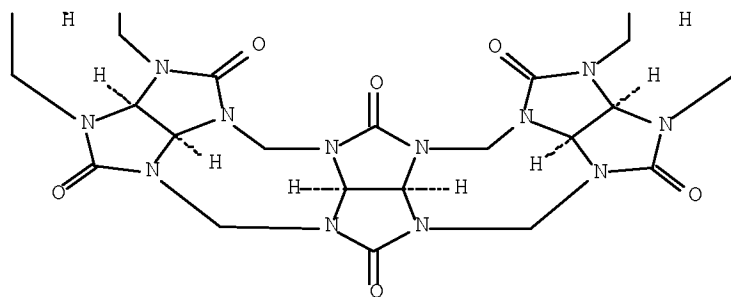
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



RN 336609-42-8 HCAPLUS

CN 2, 20:3, 19-Dimethano-2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 14a, 15a, 16a, 17a,

19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontazabispentaleno[1''',6''':5''',6''',7''']cycloocta[1''',2''',3''':3''',4''']pentaleno[1'',6'':5'',6'',7'']cycloocta[1'',2'',3'':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-, (2a $\alpha$ ,19a $\alpha$ ,21b $\alpha$ ,23b $\alpha$ ,23c $\alpha$ ,25b $\alpha$ ,25c.alpha a.,27b $\alpha$ ,27c $\alpha$ ,29b $\alpha$ ,29c $\alpha$ ,31b $\alpha$ ,31c $\alpha$ ,33b.a lpha.,33c $\alpha$ ,34b $\alpha$ )-, compd. with Reactive Navy Blue HE-R (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 336184-03-3

CMF Unspecified

CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

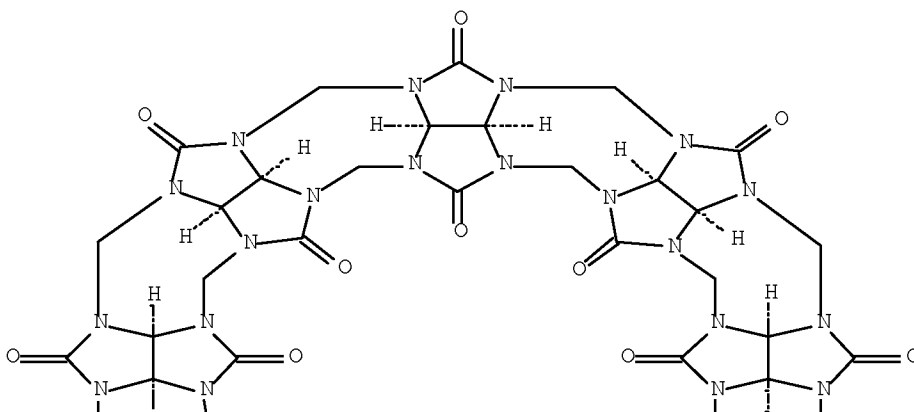
CM 2

CRN 259886-51-6

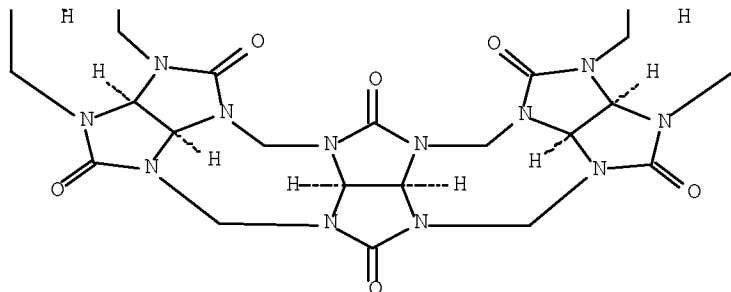
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



RN 336609-43-9 HCAPLUS  
 CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
 2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3  
 ''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-,  
 (2aα,19aα,21bα,23bα,23cα,25bα,25c.αph  
 a.,27bα,27cα,29bα,29cα,31bα,31cα,33b.a  
 lpha.,33cα,34bα)-, compd. with Disperse Yellow E 3 (1:1) (9CI)  
 (CA INDEX NAME)

CM 1

CRN 336185-14-9  
 CMF Unspecified  
 CCI MAN

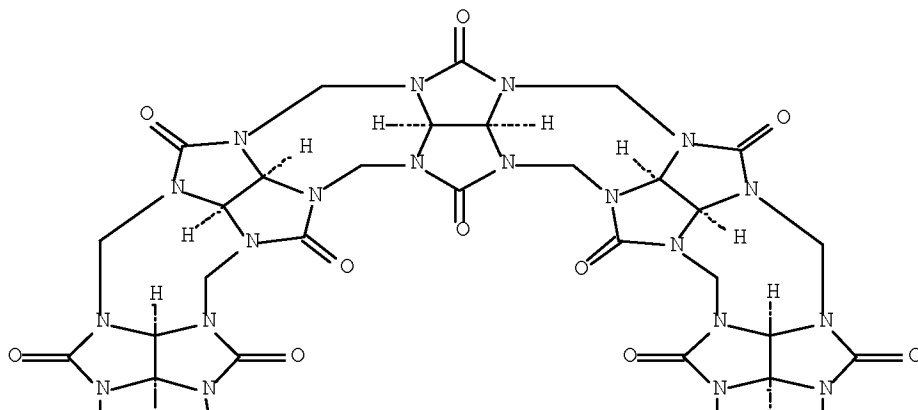
\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

CM 2

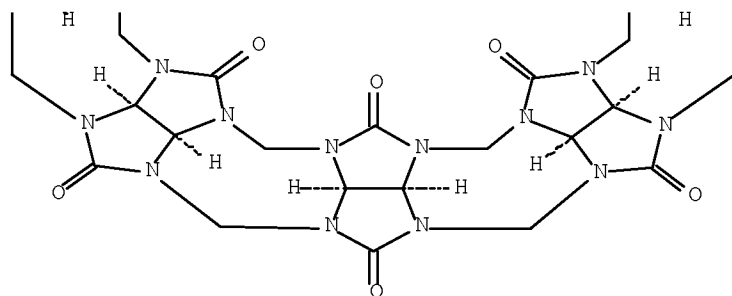
CRN 259886-51-6  
 CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



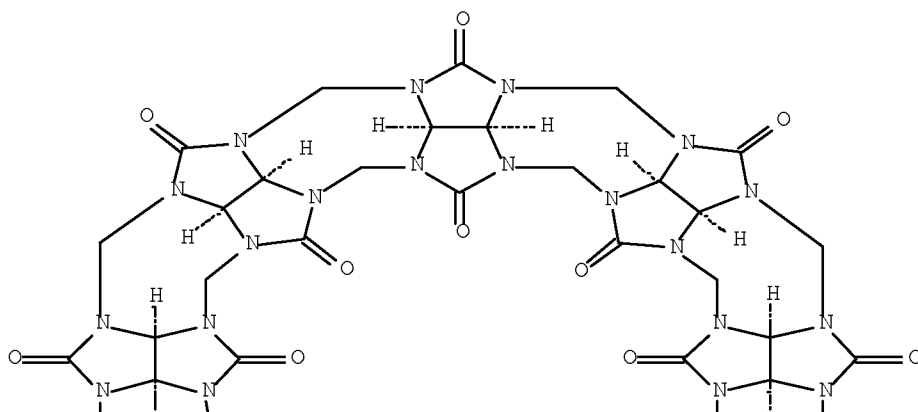
RN 336609-44-0 HCAPLUS  
 CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
 2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3  
 ''':3'',4'']pentaleno[1'',6'':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-,  
 (2aα,19aα,21bα,23bα,23cα,25bα,25c.αph  
 a.,27bα,27cα,29bα,29cα,31bα,31cα,33b.α  
 lpha.,33cα,34bα)-, compd. with  
 4,11-diamino-2-(3-methoxypropyl)-1H-naphth[2,3-f]isoindole-1,3,5,10(2H)-  
 tetrone (1:1) (9CI) (CA INDEX NAME)

CM 1

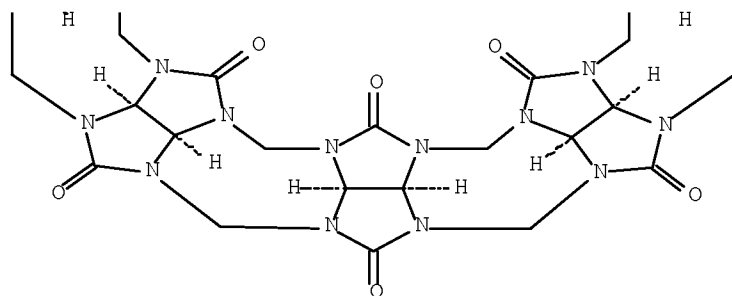
CRN 259886-51-6  
 CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



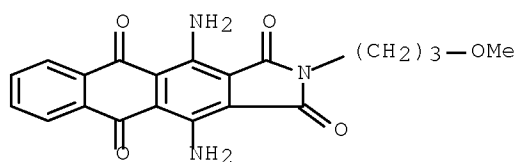
PAGE 2-A



CM 2

CRN 12217-80-0

CMF C20 H17 N3 O5



RN 336609-45-1 HCAPLUS

CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3

'' :3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-,  
(2a $\alpha$ , 19a $\alpha$ , 21b $\alpha$ , 23b $\alpha$ , 23c $\alpha$ , 25b $\alpha$ , 25c $\alpha$ , 27b $\alpha$ , 27c $\alpha$ , 29b $\alpha$ , 29c $\alpha$ , 31b $\alpha$ , 31c $\alpha$ , 33b $\alpha$ , 33c $\alpha$ , 34b $\alpha$ )-, compd. with C.I. Direct Orange 34 (1:1)  
(9CI) (CA INDEX NAME)

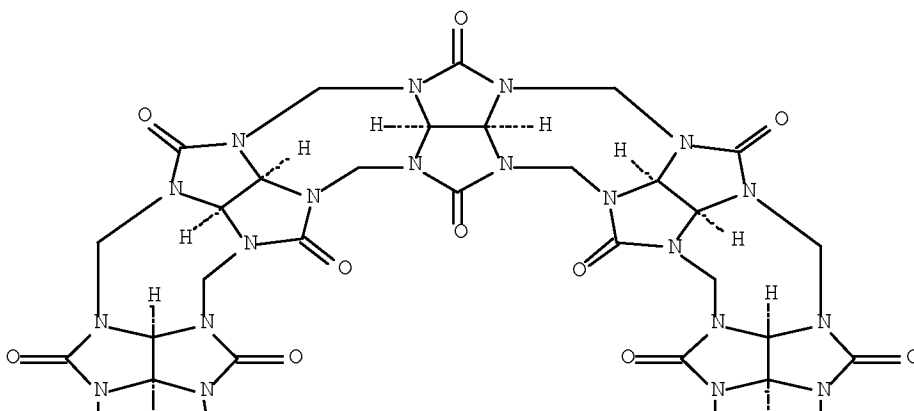
CM 1

CRN 259886-51-6

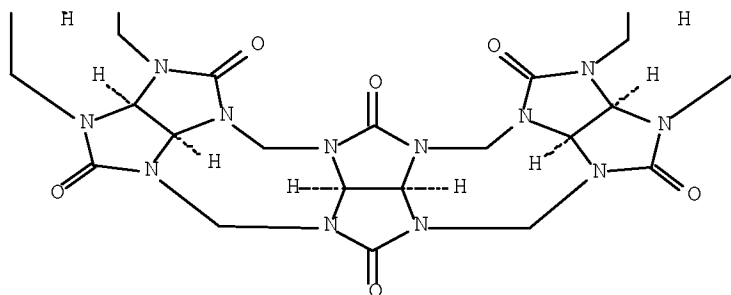
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



CM 2

CRN 12222-37-6

CMF Unspecified

CCI MAN



\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

IT 259886-50-5P, Cucurbit[7]uril 259886-51-6P,  
Cucurbit[8]uril

RL: NUU (Other use, unclassified); PRP (Properties); RCT (Reactant); SPN  
(Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent);  
USES (Uses)

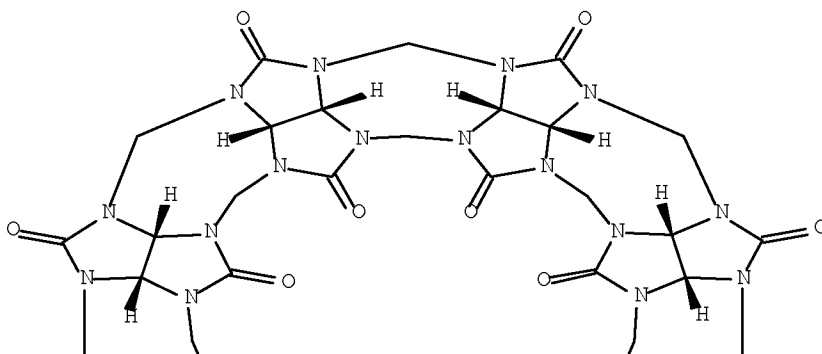
(preparation of cucurbiturils as chelating agents)

RN 259886-50-5 HCAPLUS

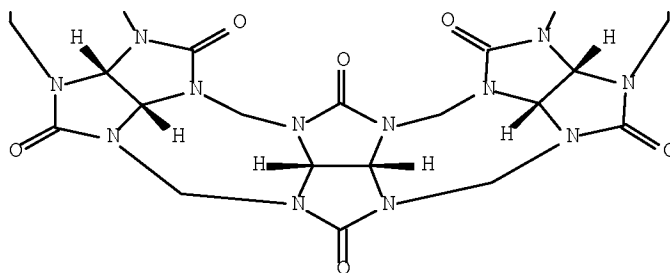
CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'  
''',3''':3''',4''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':  
3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
1,4,6,8,10,12,14,16,19,21,23,25,27,29-tetradecone, tetradecahydro-,  
stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



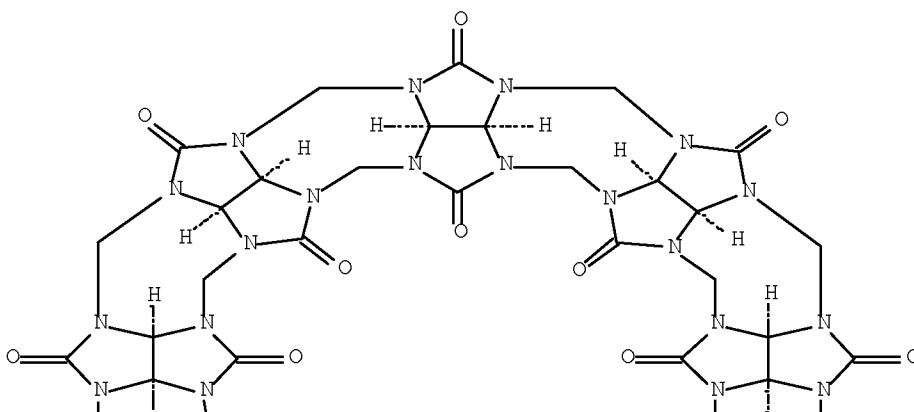
RN 259886-51-6 HCAPLUS

CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1'''''

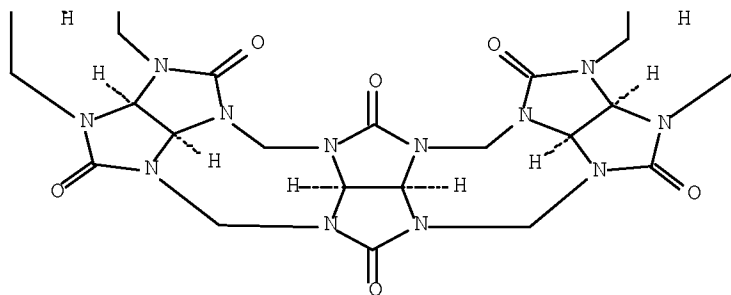
,2''',3''':3'',4''']pentaleno[1'',6''':5'',6'',7''']cycloocta[1'',2'',3''':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-1,4,6,8,10,12,14,16,18,21,23,25,27,29,31,33-hexadecone, hexadecahydro-, stereoisomer (CA INDEX NAME)

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



IT 259886-49-2P, Cucurbit[5]uril 335446-38-3P  
335446-40-7P 335446-43-0P 335446-45-2P  
335672-73-6P

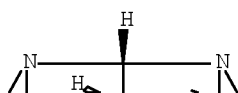
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(preparation of cucurbiturils as chelating agents)

RN 259886-49-2 HCAPLUS

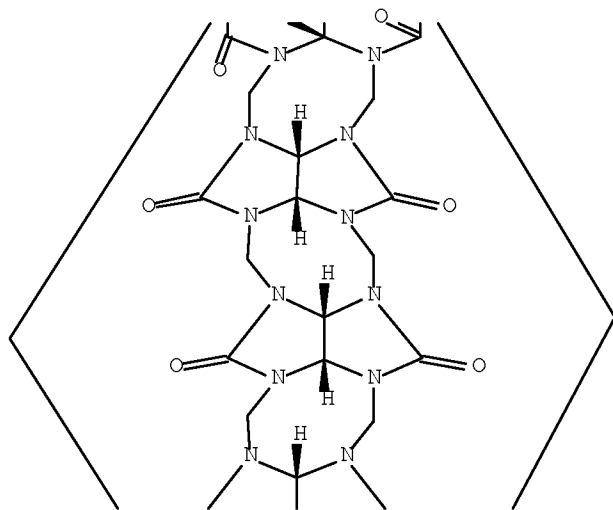
CN 1H,4H,12H,15H-2,14:3,13-Dimethano-  
5H,6H,7H,8H,9H,10H,11H,16H,17H,18H,19H,20H,21H,22H-  
2,3,4a,5a,6a,7a,8a,9a,10a,11a,13,14,15a,16a,17a,18a,19a,20a,21a,22a-  
eicosaazabispentaleno[1'',6''':5'',6'',7''']cycloocta[1'',2'',3''':3'',4'']pe  
ntaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-gh]pentalene-  
1,4,6,8,10,12,15,17,19,21-decone, decahydro-, stereoisomer (CA INDEX  
NAME)

Relative stereochemistry.

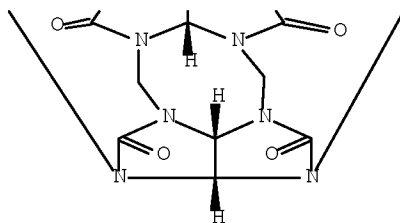
PAGE 1-A



PAGE 2-A



PAGE 3-A



RN 335446-38-3 HCAPLUS  
 CN L-Tyrosine, compd. with 1,1'-dimethyl-4,4'-bipyridinium dichloride and  
 (2aα, 19aα, 21bα, 23bα, 23cα, 25bα, 25c.αph  
 a., 27bα, 27cα, 29bα, 29cα, 31bα, 31cα, 33b.α  
 lpha., 33cα, 34bα)-hexadecahydro-2,20:3,19-dimethano-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24  
 a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1'''''  
 ,2''''',3''''':3''''',4''''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3  
 '':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone (1:1:1) (9CI)  
 (CA INDEX NAME)

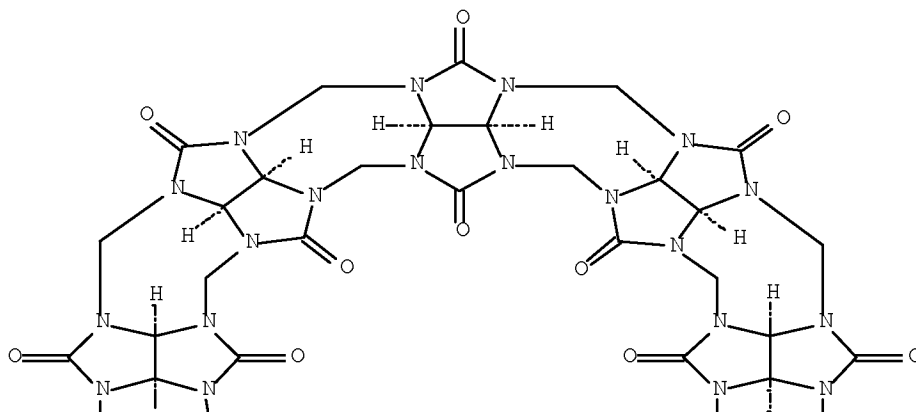
CM 1

CRN 259886-51-6

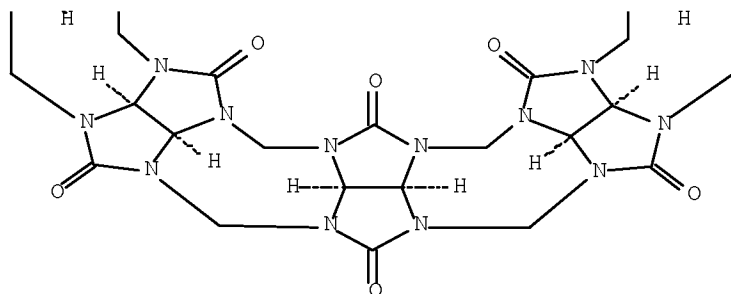
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



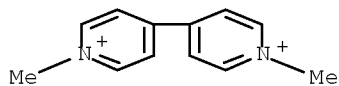
PAGE 2-A



CM 2

CRN 1910-42-5

CMF C12 H14 N2 . 2 C1



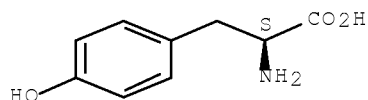
● 2 C1 -

CM 3

CRN 60-18-4

CMF C9 H11 N O3

Absolute stereochemistry. Rotation (-).



RN 335446-40-7 HCAPLUS

CN L-Tryptophan, compd. with 1,1'-dimethyl-4,4'-bipyridinium dichloride and  
 (2aα, 19aα, 21bα, 23bα, 23cα, 25bα, 25c.αph  
 a., 27bα, 27cα, 29bα, 29cα, 31bα, 31cα, 33b.a  
 lpha., 33cα, 34bα)-hexadecahydro-2,20:3,19-dimethano-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24  
 a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1'''''  
 ,2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3  
 ''':3'',4'']pentaleno[1'',6'':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone (1:1:1) (9CI)  
 (CA INDEX NAME)

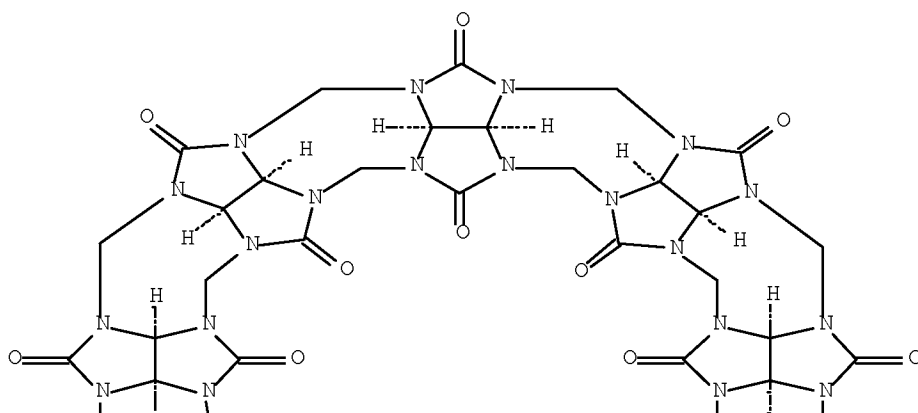
CM 1

CRN 259886-51-6

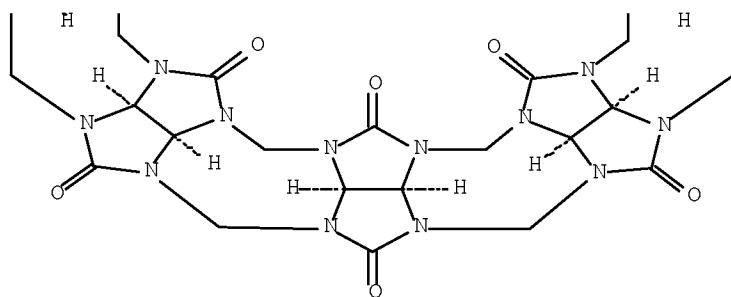
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



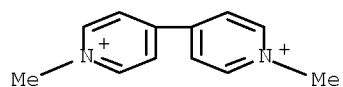
PAGE 2-A



CM 2

CRN 1910-42-5

CMF C12 H14 N2 . 2 Cl

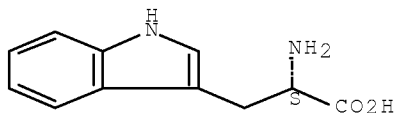
● 2 Cl<sup>-</sup>

CM 3

CRN 73-22-3

CMF C11 H12 N2 O2

Absolute stereochemistry.



RN 335446-43-0 HCAPLUS

CN 4,4'-Bipyridinium, dichloride, compd. with  
 (2aα, 19aα, 21bα, 23bα, 23cα, 25bα, 25c.αph  
 a., 27bα, 27cα, 29bα, 29cα, 31bα, 31cα, 33b.α  
 lpha., 33cα, 34bα)-hexadecahydro-2,20:3,19-dimethano-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24  
 a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
 2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3  
 ''':3'',4'']pentaleno[1'',6'':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone and  
 5-methyl-2,4(1H,3H)-pyrimidinedione (1:1:1) (9CI) (CA INDEX NAME)

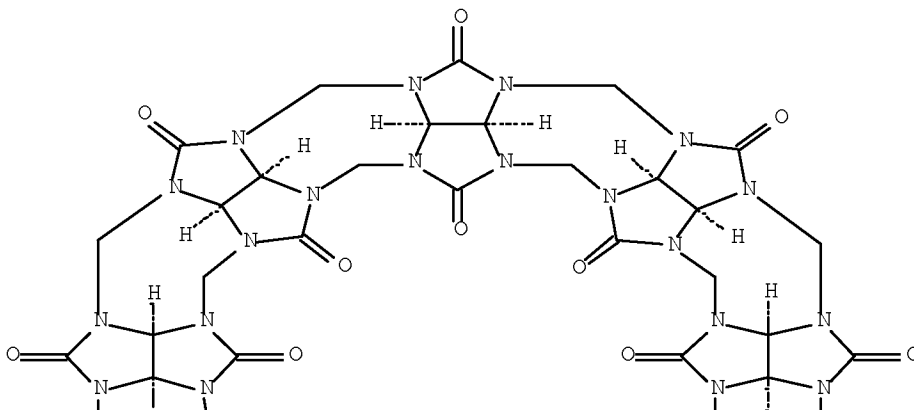
CM 1

CRN 259886-51-6

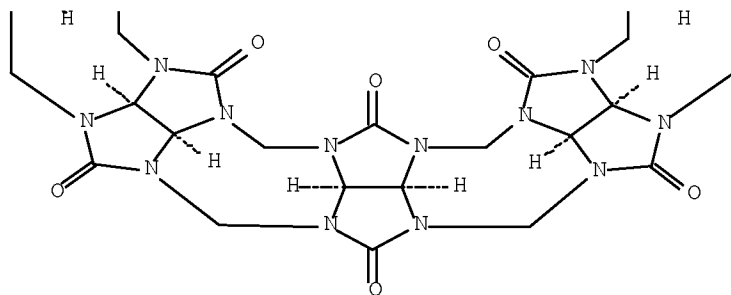
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



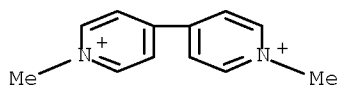
PAGE 2-A



CM 2

CRN 1910-42-5

CMF C12 H14 N2 . 2 C1

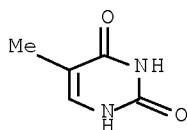


● 2 C1 -

CM 3

CRN 65-71-4

CMF C5 H6 N2 O2



RN 335446-45-2 HCAPLUS

CN 4,4'-Bipyridinium, 1,1'-dimethyl-, dichloride, compd. with

(2aα, 19aα, 21bα, 23bα, 23cα, 25bα, 25c.αph

a., 27bα, 27cα, 29bα, 29cα, 31bα, 31cα, 33b.α

lpha., 33cα, 34bα)-hexadecahydro-2,20:3,19-dimethano-

2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24

a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-

dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1'''''

,2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3

''':3'',4'']pentaleno[1'',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-

g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone (1:1) (9CI) (CA



INDEX NAME)

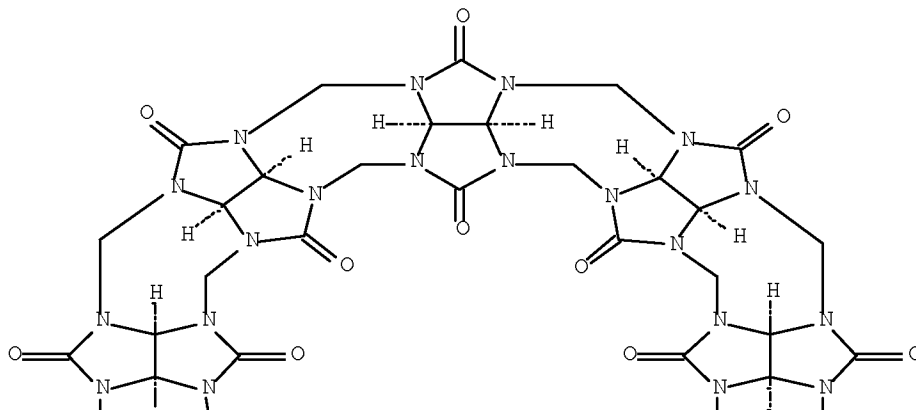
CM 1

CRN 259886-51-6

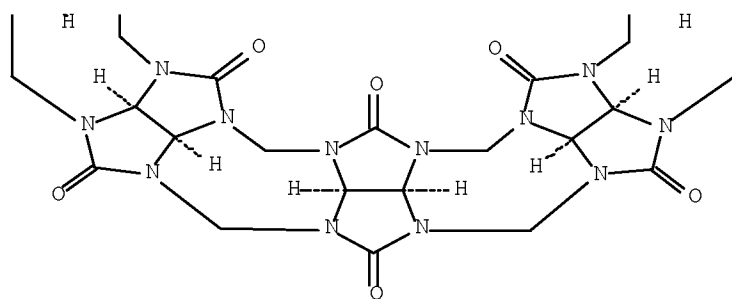
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



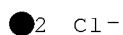
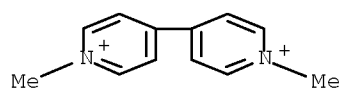
PAGE 2-A



CM 2

CRN 1910-42-5

CMF C12 H14 N2 . 2 C1



RN 335672-73-6 HCAPLUS

CN Platinum, dichloro(1,2-ethanediamine-κN,κN')-, (SP-4-2)-, compd. with (2α,19α,21bα,23bα,23cα,25b.alp ha.,25cα,27bα,27cα,29bα,29cα,31bα,31c. alpha.,33bα,33cα,34bα)-hexadecahydro-2,20:3,19-dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontaazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1''',2''',3''':3'',4'']pentaleno[1'',6'':5',6',7']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone (2:1) (9CI) (CA INDEX NAME)

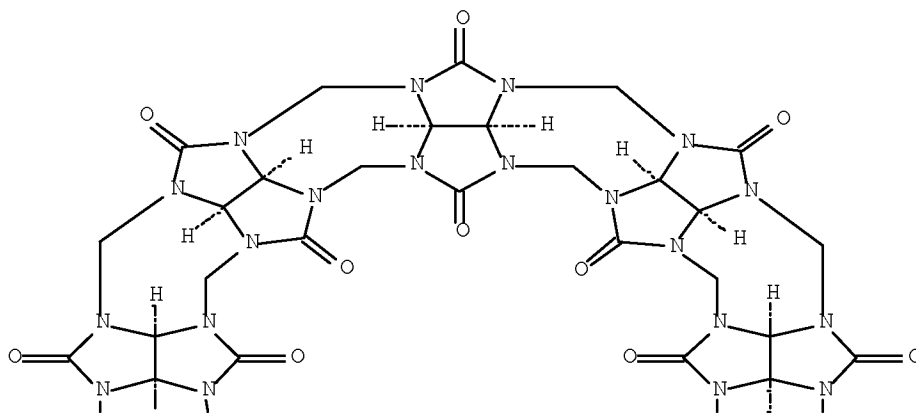
CM 1

CRN 259886-51-6

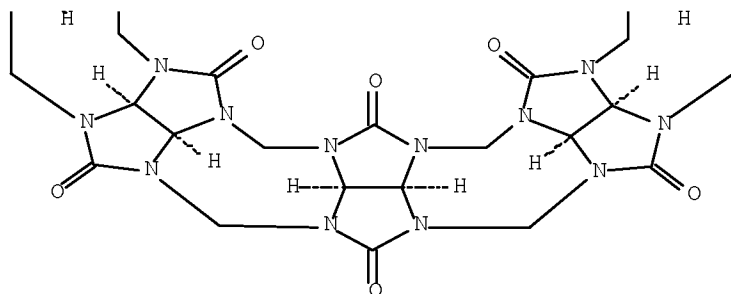
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



PAGE 2-A

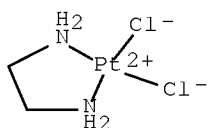


CM 2

CRN 14096-51-6

CMF C2 H8 Cl2 N2 Pt

CCI CCS



IT 259886-56-1P 259886-57-2P 283175-97-3P,  
Cucurbit[6]uril 335446-31-6P 335446-33-8P  
335446-35-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of cucurbiturils as chelating agents)

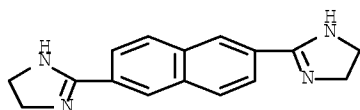
RN 259886-56-1 HCAPLUS

CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',  
3''''':3''''',4''''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':  
3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-  
gh]pentalenetetradecone, tetradecahydro-,  
(2aα,17aα,19bα,21bα,21cα,23bα,23c.αph  
a.,25bα,25cα,27bα,27cα,29bα,29cα,30b.α  
lpha.)-, compd. with 2,2'-(2,6-naphthalenediyl)bis[4,5-dihydro-1H-  
imidazole] (1:1), dihydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 259886-58-3

CMF C16 H16 N4



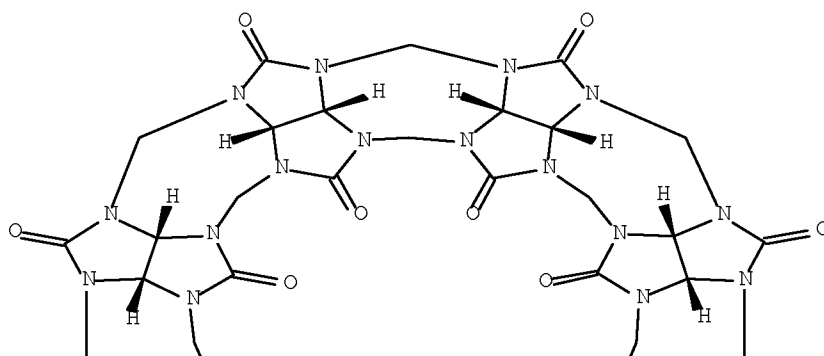
CM 2

CRN 259886-50-5

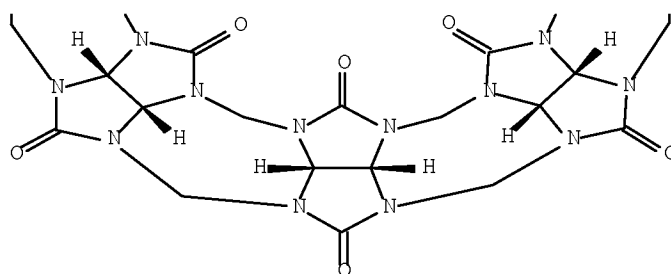
CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



PAGE 2-A



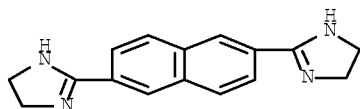
RN 259886-57-2 HCAPLUS

CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-, (2aα,19aα,21bα,23bα,23cα,25bα,25c.αph a.,27bα,27cα,29bα,29cα,31bα,31cα,33b.a lpha.,33cα,34bα)-, compd. with 2,2'-(2,6-naphthalenediyl)bis[4,5-dihydro-1H-imidazole] (1:2), tetrahydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 259886-58-3

CMF C16 H16 N4



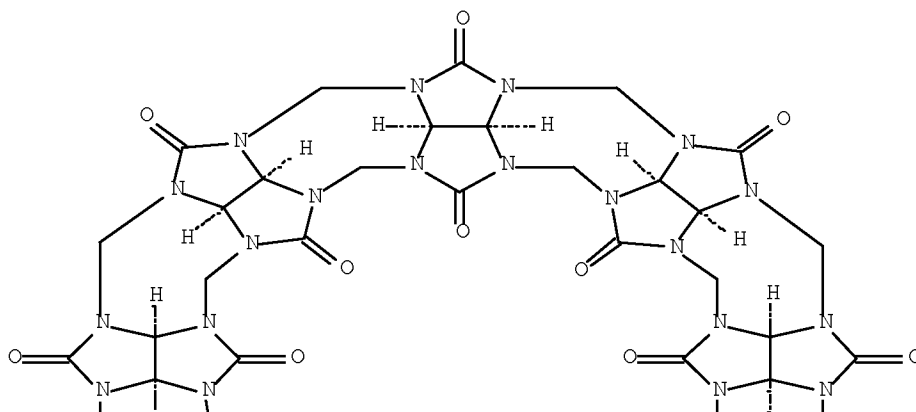
CM 2

CRN 259886-51-6

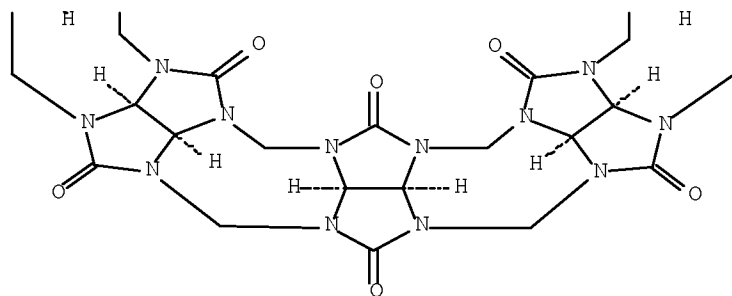
CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



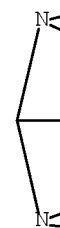
PAGE 2-A



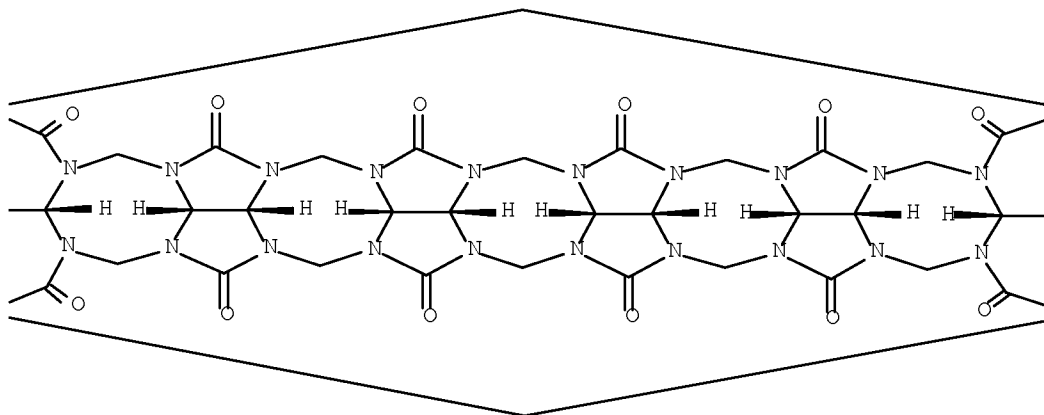
RN 283175-97-3 HCAPLUS  
 CN 1H,4H,14H,17H-2,16:3,15-Dimethano-  
 5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-  
 2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24  
 a,25a,26a-tetracosazabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''  
 ,3'':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
 1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro-, stereoisomer (CA  
 INDEX NAME)

Relative stereochemistry.

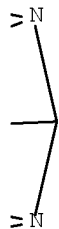
PAGE 1-A



PAGE 1-B



PAGE 1-C



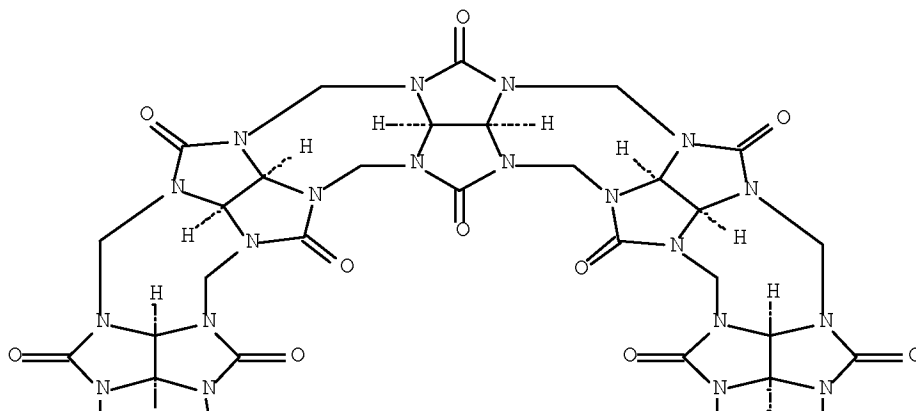
RN 335446-31-6 HCAPLUS  
 CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,  
 19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-  
 dotriacontaazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',  
 2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3  
 ''':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
 g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-,  
 (2aα,19aα,21bα,23bα,23cα,25bα,25c.αph  
 a.,27bα,27cα,29bα,29cα,31bα,31cα,33b.α  
 lpha.,33cα,34bα)-, compd. with 1,4,7,10-tetraazacyclododecane  
 tetrahydrochloride (1:1) (9CI) (CA INDEX NAME)

CM 1

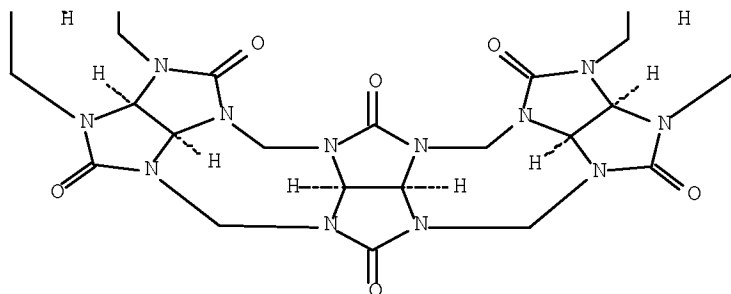
CRN 259886-51-6  
 CMF C48 H48 N32 O16

Relative stereochemistry.

PAGE 1-A



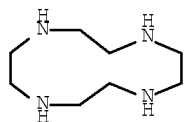
PAGE 2-A



CM 2

CRN 294-90-6

CMF C8 H20 N4



RN 335446-33-8 HCAPLUS

CN 2,20:3,19-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,16a,17a,19,20,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a,31a,32a,33a,34a-dotriacontazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2''''',3''''':3''''',4''''']pentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''',2''',3''':3'',4'']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalenehexadecone, hexadecahydro-, (2aα,19aα,21bα,23bα,23cα,25bα,25c.αph a.,27bα,27cα,29bα,29cα,31bα,31cα,33b.a lpha.,33cα,34bα)-, compd. with 1,4,8,11-tetraazacyclotetradecane tetrahydrochloride (1:1) (9CI) (CA INDEX NAME)

CM 1

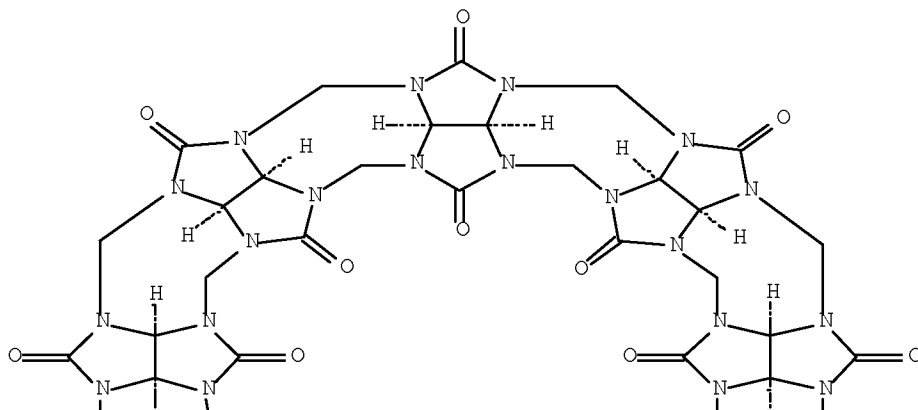
CRN 259886-51-6

CMF C48 H48 N32 O16

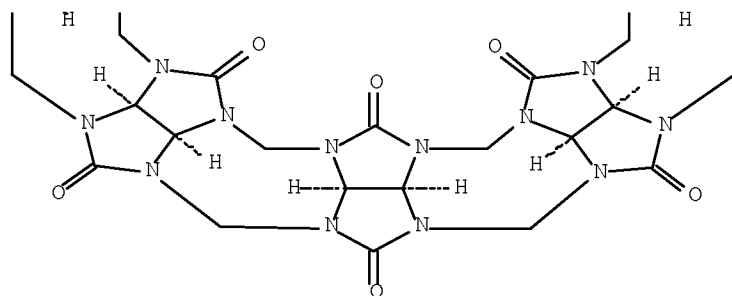
Relative stereochemistry.



PAGE 1-A



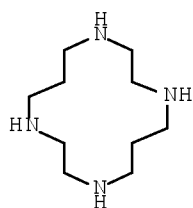
PAGE 2-A



CM 2

CRN 295-37-4

CMF C10 H24 N4



RN 335446-35-0 HCAPLUS

CN 2,18:3,17-Dimethano-2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,14a,15a,17,18,19  
a,20a,21a,22a,23a,24a,25a,26a,27a,28a,29a,30a-  
octacosazabispentaleno[1''''',6''''':5''''',6''''',7''''']cycloocta[1''''',2'

''',3''':3''',4''']pentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2'',3'':  
3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-cd:1',2',3'-  
gh]pentalenetetradecone, tetradecahydro-,  
(2a $\alpha$ ,17a $\alpha$ ,19b $\alpha$ ,21b $\alpha$ ,21c $\alpha$ ,23b $\alpha$ ,23c. $\alpha$ ph  
a.,25b $\alpha$ ,25c $\alpha$ ,27b $\alpha$ ,27c $\alpha$ ,29b $\alpha$ ,29c $\alpha$ ,30b. $\alpha$   
lpha.)-, compd. with tricyclo[3.3.1.1<sup>3,7</sup>]decan-1-amine hydrochloride (1:1)  
(9CI) (CA INDEX NAME)

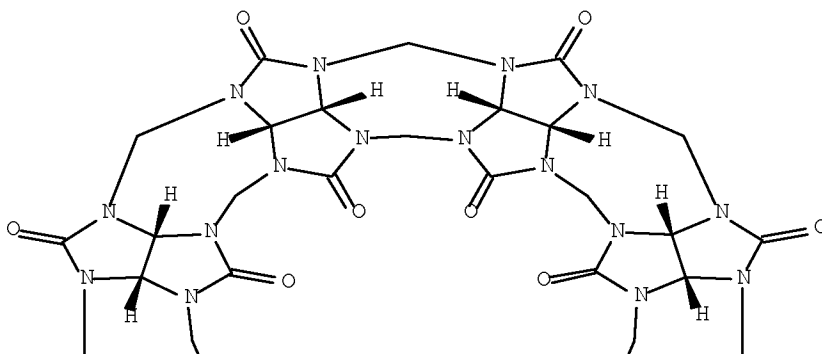
CM 1

CRN 259886-50-5

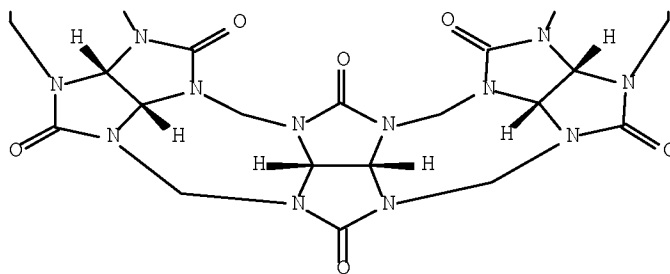
CMF C42 H42 N28 O14

Relative stereochemistry.

PAGE 1-A



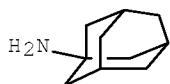
PAGE 2-A



CM 2

CRN 768-94-5

CMF C10 H17 N



OSC.G 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)  
 RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 29 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:513569 HCAPLUS Full-text

DN 133:122609

TI A method for separating methane from natural gas using bisglycoluril derivatives

IN Chang, Clarence D.; Schramm, Suzanne Elaine; Chase, Clarence Edward

PA Mobil Oil Corporation, USA

SO PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000043101	A1	20000727	WO 2000-US1463	20000121 <--
	W:			AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW	
	RW:			GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
	US 6106594	A	20000822	US 1999-235527	19990122 <--
	CA 2359661	A1	20000727	CA 2000-2359661	20000121 <--
	US 6290755	B1	20010918	US 2000-563693	20000503 <--
PRAI	US 1999-235527	A	19990122	<--	
	WO 2000-US1463	W	20000121	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 133:122609

AB The present invention provides a method for selectively recovering methane from a gas stream containing carbon dioxide using a bisglycoluril derivative to selectively extract the methane.

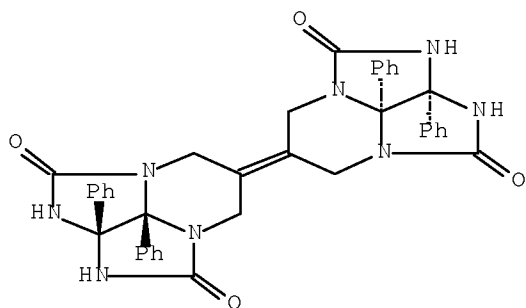
IT 286012-65-5P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (selective extraction of methane from natural gas using bisglycoluril derivs.)

RN 286012-65-5 HCAPLUS

CN 5H-2,3,4a,7a-Tetraazacyclopent[cd]indene-1,4(2H,3H)-dione,  
 6-[hexahydro-1,4-dioxo-5H-2a,7b-diphenyl-2,3,4a,7a-tetraazacyclopent[cd]inden-6(7H)-ylidene]-2a,6,7,7b-tetrahydro-2a,7b-diphenyl-, stereoisomer (9CI) (CA INDEX NAME)

Relative stereochemistry.

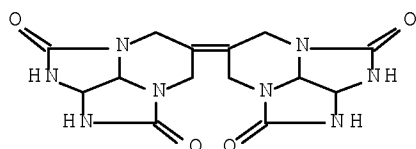


IT 286012-64-4D, derivs.

RL: TEM (Technical or engineered material use); USES (Uses)  
(selective extraction of methane from natural gas using bisglycoluril  
derivs.)

RN 286012-64-4 HCAPLUS

CN 5H-2,3,4a,7a-Tetraazacyclopent[cd]indene-1,4(2H,3H)-dione,  
6-(hexahydro-1,4-dioxo-5H-2,3,4a,7a-tetraazacyclopent[cd]inden-6(7H)-  
ylidene)tetrahydro- (9CI) (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 30 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:120576 HCAPLUS Full-text

DN 132:155920

TI Deodorant for treating odorous air containing formaldehyde

IN Usami, Takashi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

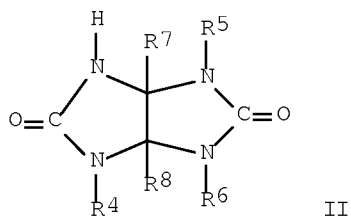
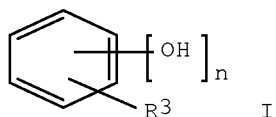
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 2000051337	A	20000222	JP 1998-230646	19980817 <--
PRAI	JP 1998-230646		19980817	<--	
OS	MARPAT 132:155920				
GI					



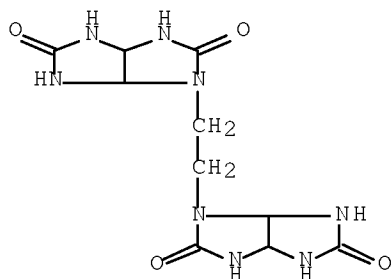
AB The title deodorant comprises  $\geq 1$  HCHO-scavenger compds. selected from (i) active methylene compds., cyclic ureas or non-cyclic ureas of formula: R<sup>1</sup>XHR<sup>2</sup> (R<sup>1</sup> and R<sup>2</sup> = H, alkyl, substituted alkyl, aryl, substituted aryl, acyl, alkoxy carbonyl, carbamoyl or amino; X = -CH- or -N- group), (ii) benzene derivs. of formula: (I) (R<sup>3</sup> = alkyl, aryl, and substituted alkyl or aryl; n = an integer of  $\geq 2$ ), and (iii) glycoluril compds. of formula (II) (R<sup>4</sup>-R<sup>6</sup> = H, alkyl, alkenyl, aralkyl or aryl; R<sup>7</sup> and R<sup>8</sup> = H or alkyl). The HCHO-scavenger compds. are preferably loaded at 0.1-50 g/cm<sup>2</sup> on the surface of a nonwoven fiber sheet support.

IT 87642-00-0 87642-01-1 257870-65-8  
257870-66-9 257870-67-0

RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(formaldehyde scavenger compound as; in deodorant for treating odorous air containing formaldehyde)

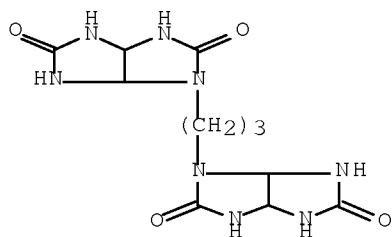
RN 87642-00-0 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione,  
1,1'-(1,2-ethanediyl)bis[tetrahydro- (CA INDEX NAME)



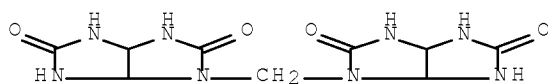
RN 87642-01-1 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione,  
1,1'-(1,3-propanediyl)bis[tetrahydro- (CA INDEX NAME)



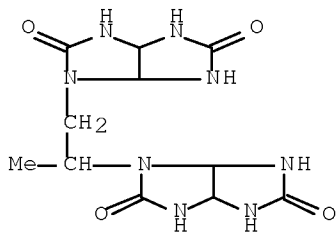
RN 257870-65-8 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione, 1,1'-methylenebis[tetrahydro- (9CI) (CA INDEX NAME)



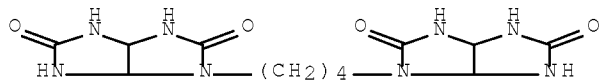
RN 257870-66-9 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione, 1,1'-(1-methyl-1,2-ethanediyl)bis[tetrahydro- (9CI) (CA INDEX NAME)



RN 257870-67-0 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione, 1,1'-(1,4-butanediyl)bis[tetrahydro- (9CI) (CA INDEX NAME)



L45 ANSWER 31 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1997:623631 HCAPLUS Full-text

DN 127:205599

OREF 127:39974h,39975a

TI Preparation of cucurbituril.

IN Buschmann, Hans-Juergen; Fink, Harald; Schollmeyer, Eckhard

PA Deutsches Textilforschungszentrum Nord-West E.V., Germany

SO Ger. Offen., 4 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19603377	A1	19970807	DE 1996-19603377	19960131 <--
	DE 19603377	B4	20061214		
PRAI	DE 1996-19603377		19960131	<--	

OS CASREACT 127:205599

AB Cucurbituril (I) was prepared by (1) dissoln. of acetylenediurea (II) in aqueous mineral acid in the presence of excess formaldehyde under heating, (2) removal of H<sub>2</sub>O via distillation, and (3) heating the resulting polymer to give crystalline I. Thus, II was added to aqueous H<sub>2</sub>SO<sub>4</sub> containing aqueous formaldehyde under heating and stirring; H<sub>2</sub>O was removed by distillation to give a residue which was heated to 135-145°. Heating was discontinued when formaldehyde cleavage began, and self-heating brought the reaction temperature to 165°. The mixture was stirred a further 15 min. and the resulting crystals were cooled and added to H<sub>2</sub>O to give 82.4% I.

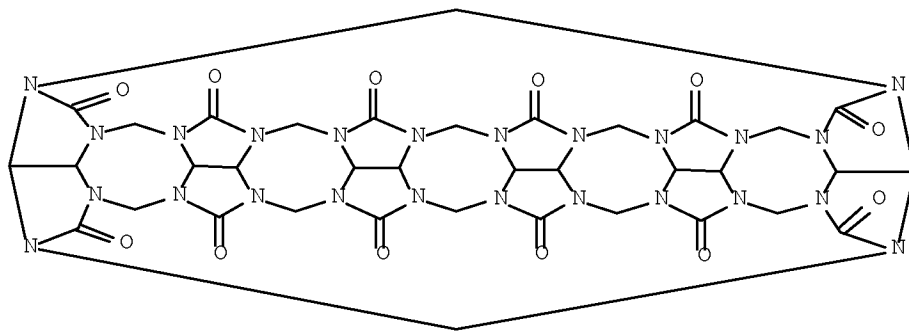
IT 80262-44-8P, Cucurbituril

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of cucurbituril)

RN 80262-44-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
 5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
 2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
 a, 25a, 26a-tetracosazabispentaleno[1''', 6''':5'', 6'', 7'']cycloocta[1'', 2''  
 , 3'':3', 4']pentaleno[1', 6':5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
 g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
 1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)



OSC.G 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L45 ANSWER 32 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1995:996892 HCAPLUS Full-text

DN 124:65677

OREF 124:12145a, 12148a

TI Removal of organic compounds such as dyes from wastewaters

IN Buschmann, Hans-Juergen; Jonas, Claudia; Saus, Wolfgang

PA Wedeco Umwelttechnologie Wasser-Boden-Luft GmbH, Germany

SO Ger. Offen., 7 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4412320	A1	19951019	DE 1994-4412320	19940411 <--
	DE 4412320	C2	19960523		
PRAI	DE 1994-4412320		19940411	<--	

AB Dyes are removed from wastewaters by sorption on an organic mol. such as the cyclic oligomer of urea, thiourea, urea derivs. and/or thiourea derivs. with dialdehydes and formaldehyde. The oligomer is then treated with ozone to decompose the dyes.

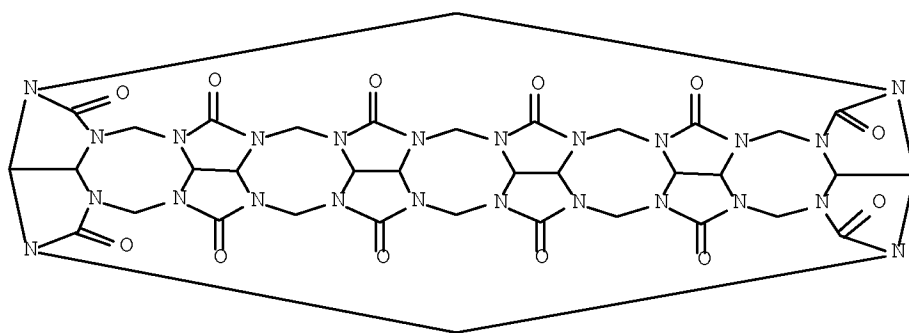
IT 80262-44-8

RL: NUU (Other use, unclassified); USES (Uses)

(removal of dyes from wastewaters by sorption with sorbent  
regeneration)

RN 80262-44-8 HCAPLUS

CN 1H, 4H, 14H, 17H-2, 16:3, 15-Dimethano-  
5H, 6H, 7H, 8H, 9H, 10H, 11H, 12H, 13H, 18H, 19H, 20H, 21H, 22H, 23H, 24H, 25H, 26H-  
2, 3, 4a, 5a, 6a, 7a, 8a, 9a, 10a, 11a, 12a, 13a, 15, 16, 17a, 18a, 19a, 20a, 21a, 22a, 23a, 24  
a, 25a, 26a-tetracosazabispentaleno[1''', 6''' : 5'', 6'', 7'']cycloocta[1'', 2''  
, 3'' : 3', 4']pentaleno[1', 6' : 5, 6, 7]cycloocta[1, 2, 3-gh:1', 2', 3'-  
g'h']cycloocta[1, 2, 3-cd:5, 6, 7-c'd']dipentalene-  
1, 4, 6, 8, 10, 12, 14, 17, 19, 21, 23, 25-dodecone, dodecahydro- (CA INDEX NAME)



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 33 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1994:90694 HCAPLUS Full-text

DN 120:90694

OREF 120:15980h, 15981a

TI Photosensitive materials containing photosensitive microcapsules

IN Asakura, Tetsuya; Hirai, Hiroyuki

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

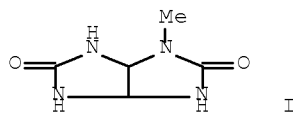
LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05210238	A	19930820	JP 1992-38336	19920130 <--
PRAI	JP 1992-38336		19920130	<--	



GI



AB The title materials, having microcapsules prepared by coating a core containing photosensitive Ag halides, reducing agents, and polymerizing compds. with an aldehyde polycondensation resin shell on a support, contain a glycoluril compound. The materials may be heat-developable and contain a base precursor and are imagewise exposed and then heat-treated to polymerize the polymerizing compds. to form images. The vaporization of aldehyde from the materials is reduced. The compound I is used as an aldehyde scavenger.

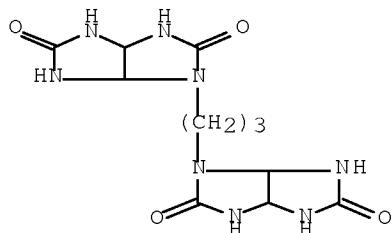
IT 87642-01-1

RL: USES (Uses)

(aldehyde scavenger, for thermally developable silver halide photoimaging compns.)

RN 87642-01-1 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione,  
1,1'-(1,3-propanediyl)bis[ (CA INDEX NAME)



L45 ANSWER 34 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1993:263788 HCAPLUS Full-text

DN 118:263788

OREF 118:45688h,45689a

TI Silver halide color photographic material

IN Obayashi, Keiji; Kamio, Takayoshi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 115 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05002249	A	19930108	JP 1991-236826	19910826 <--
PRAI	JP 1991-112122	A1	19910418	<--	

GI For diagram(s), see printed CA Issue.

AB The title material contains a yellow coupler represented by X1X2NCOCHZCONHY or I. For X1X2NCOCHZCONHY and I, X1, X2 = alkyl, aryl, or heterocyclic ring; X3 = organic residue which, together with N, forms a N-containing heterocyclic

ring; Y = aryl, heterocyclic ring; Z = group to be released at the time of coupling reaction with an oxidized developing agent. The title material also contains a scavenger for oxidized developing agents and formaldehyde. The title material shows high sensitivity and gives high-quality images.

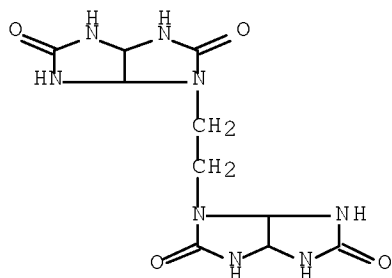
IT 87642-00-0

RL: USES (Uses)

(scavenger, for formaldehyde in photog. materials)

RN 87642-00-0 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione,  
1,1'-(1,2-ethanediyl)bis[ (CA INDEX NAME)



L45 ANSWER 35 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1991:253475 HCAPLUS Full-text

DN 114:253475

OREF 114:42670h,42671a

TI Removal of organic and inorganic compounds from process waters, especially dyes and metals in the textile industry

IN Buschmann, Hans Juergen; Fink, Harald

PA Deutsches Textilforschungszentrum Nord-West e.V., Germany

SO Ger. Offen., 10 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4001139	A1	19901025	DE 1990-4001139	19900117 <--
	DE 4001139	C2	20030417		
PRAI	DE 1989-3912784	A1	19890419	<--	

AB Cyclic oligomers which are prepared by condensation of urea, thiourea, and their derivs. with glyoxal, dialdehyde, and/or formaldehyde, are effective for removal of organic and inorg. compds. from wastewaters, especially for removal of dissolved, dispersed, or emulsified compds. with hydrophobic constituents as well as dyes and heavy metal salts. The resulting complexes are removed, then the water is diluted or treated by ion exchange to decrease the salt content. The oligomeric complexing agents can be attached to insol. supports (alumina, silica gel, kieselguhr) for easy recovery.

IT 80262-44-8

RL: PROC (Process)

(complexing agent, for wastewater treatment)

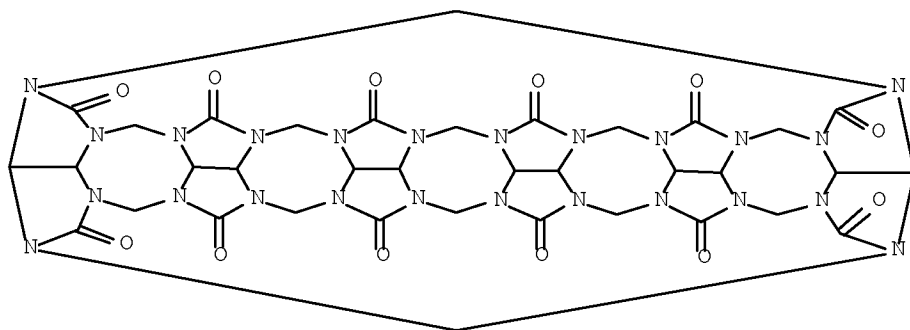
RN 80262-44-8 HCAPLUS

CN 1H,4H,14H,17H-2,16:3,15-Dimethano-

5H,6H,7H,8H,9H,10H,11H,12H,13H,18H,19H,20H,21H,22H,23H,24H,25H,26H-

2,3,4a,5a,6a,7a,8a,9a,10a,11a,12a,13a,15,16,17a,18a,19a,20a,21a,22a,23a,24a,25a,26a-tetracosazaabispentaleno[1''',6''':5'',6'',7'']cycloocta[1'',2''

,3':3',4']pentaleno[1',6':5,6,7]cycloocta[1,2,3-gh:1',2',3'-  
g'h']cycloocta[1,2,3-cd:5,6,7-c'd']dipentalene-  
1,4,6,8,10,12,14,17,19,21,23,25-dodecone, dodecahydro- (CA INDEX NAME)



OSC.G 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)  
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 36 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1983:622299 HCAPLUS Full-text

DN 99:222299

OREF 99:34033a,34036a

TI Color photographic silver halide materials

IN Kobayashi, Hidetoshi; Watanabe, Toshiyuki; Adachi, Keiichi; Ogawa, Tadashi

PA Fuji Photo Film Co., Ltd. , Japan

SO Ger. Offen., 77 pp.

CODEN: GWXXBX

DT Patent

LA German

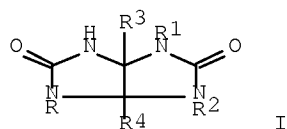
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3241087	A1	19830519	DE 1982-3241087	19821106 <--
	DE 3241087	C2	19910110		
	JP 58079248	A	19830513	JP 1981-177989	19811106 <--
	JP 63032378	B	19880629		
	GB 2111230	A	19830629	GB 1982-31700	19821105 <--
	GB 2111230	B	19850220		
	US 4411987	A	19831025	US 1982-440044	19821108 <--
PRAI	JP 1981-177989	A	19811106	<--	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 99:222299

GI



AB Water-soluble glycolurils (I; R, R1, R2 = H, alkyl, alkenyl, aralkyl, aryl, or acyl; R3, R4 = H or alkyl) or polymers thereof are described for use as aldehyde gas scavengers in color photog. materials. These compds. are incorporated in an underlayer, protective layer, interlayer, filler layer, antihalation layer, or other layer at 0.01-5 g/m2. Thus, a subbed cellulose acetate support was coated with a green-sensitive gelatin-Ag(Br,I) emulsion containing a magenta coupler and then with a protective layer containing gelatin 1.5 and I (R, R2, R3, R4 = H; R1 = Me) (II) 0.6 g/m2. The resultant film was then exposed, color developed, bleached, washed, fixed, washed, and stabilized to give a magenta image which was then exposed to HCHO to show a decrease in d. of 5% vs. 40% for a II-free control.

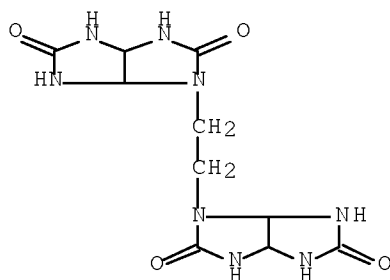
IT 87642-00-0 87642-01-1

RL: DEV (Device component use); USES (Uses)

(color photog. films containing, as formaldehyde gas scavenger)

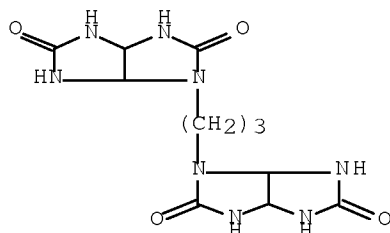
RN 87642-00-0 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione,  
1,1'-(1,2-ethanediyl)bis[tetrahydro- (CA INDEX NAME)]



RN 87642-01-1 HCAPLUS

CN Imidazo[4,5-d]imidazole-2,5(1H,3H)-dione,  
1,1'-(1,3-propanediyl)bis[tetrahydro- (CA INDEX NAME)]



OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L45 ANSWER 37 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1976:45277 HCAPLUS Full-text

DN 84:45277

OREF 84:7449a,7452a

TI Antioxidants for polymers and lard

IN Minogawa, Motonobu; Nakahara, Yutaka; Nonoyama, Masahiro

PA Adeka Argus Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 50106881	A	19750822	JP 1974-12526	19740130 <--
	JP 56005280	B	19810204		
PRAI	JP 1974-12526	A	19740130	<--	

GI For diagram(s), see printed CA Issue.

AB Mercaptopropionate and thioldipropionate esters were used as antioxidants for polymers and lard. For example, tris(2-hydroxyethyl) isocyanurate [839-90-7] was esterified with 3-(dodecylthio)propionic acid [1462-52-8] in benzene in the presence of p-toluenesulfonic acid to give I [57898-42-7] also prepared were, e.g., II [57898-43-8] and III [57898-44-9]. Polypropylene [9003-07-0] containing 0.1 phr Goodrite 3114 and 0.3 phr I had oxidation resistance (160°, 1 atm O) 15,300 min, compared with 420 min for composition not containing I.

IT 57993-77-8

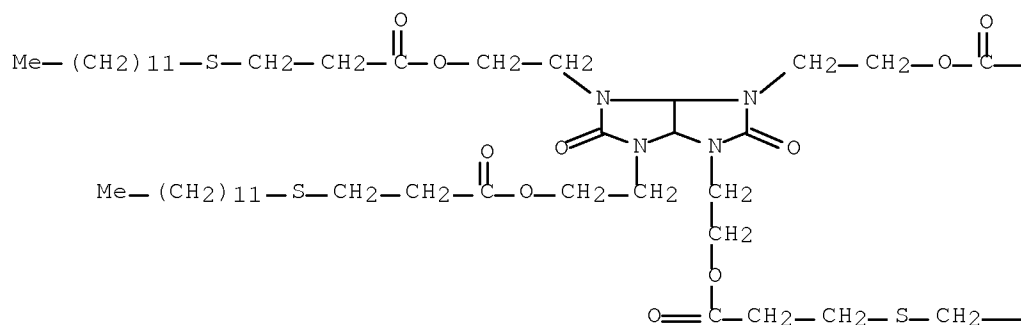
RL: USES (Uses)

(antioxidants, for polymers and lard)

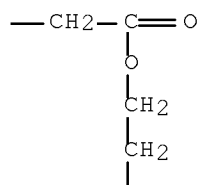
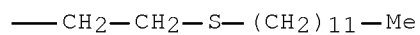
RN 57993-77-8 HCAPLUS

CN Propanoic acid, 3,3'-thiobis-, bis[2-[4,6-bis[2-[3-(dodecylthio)-1-oxopropoxy]ethyl]hexahydro-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl]ethyl] ester (9CI) (CA INDEX NAME)

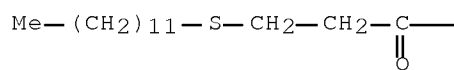
PAGE 1-A



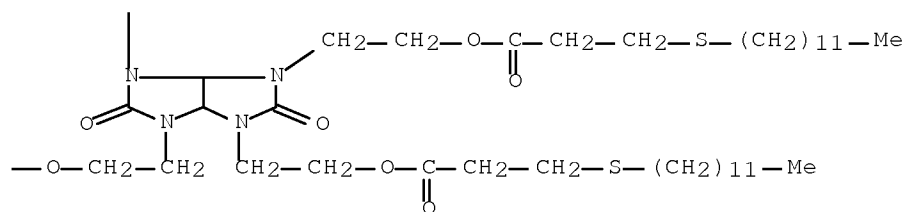
PAGE 1-B



PAGE 2-A



PAGE 2-B



OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L45 ANSWER 38 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 1964:462118 HCAPLUS Full-text

DN 61:62118

OREF 61:10815d-g

TI Dyes containing glyoxaldiureine groups

PA Durand & Huguenin A.-G.

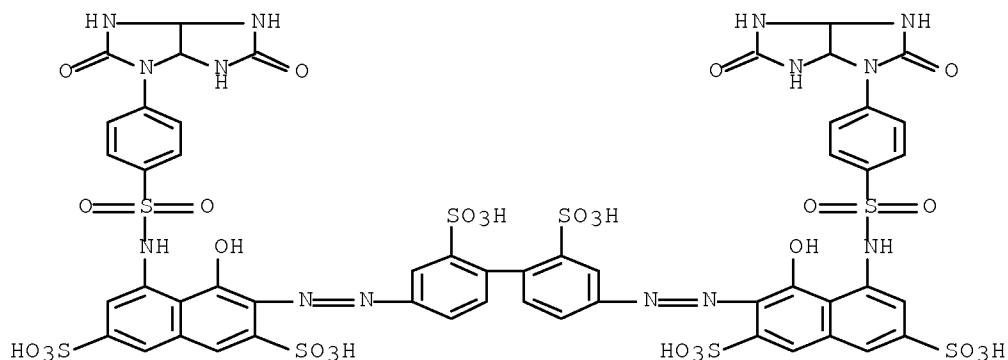
SO 5 pp.

DT Patent

LA Unavailable

FAN.CNT 1

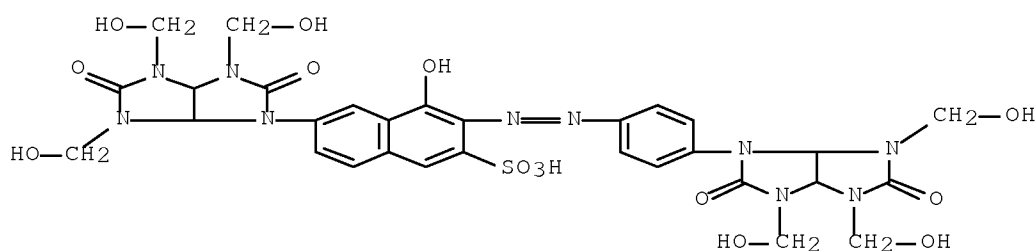
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	FR 1348381 GB 1012487 GB 970442		19640110	FR 1962-906021 GB GB	19620803 <--
PRAI	CH		19610803	<--	
GI	For diagram(s), see printed CA Issue.				
AB	Compds. of the general formula I, where R and R' can be p-sulfamoylphenyl groups (with anthraquinone or azonaphthol dye residues attached to the N), are prepared and treated with HCHO to give dyes which yield fast shades on cotton. Thus, a solution of PhNHCONH <sub>2</sub> 136 in H <sub>2</sub> O 800 and 38% HCl 28 is treated with glyoxalmonoureine 137 for 15 min. at 95° to give 207 parts N-phenylglyoxaldiureine (II). A mixture of II 109 and ClSO <sub>3</sub> H 700 parts is stirred for 3 hrs. at room temperature and 3 hrs. at 40° to give N-(4-chlorosulfonylphenyl)glyoxaldiureine (III). A solution of 3-methyl-4-(4,8-disulfo-2-naphthylazo)aniline 84 and NaOAc 100 in H <sub>2</sub> O 100 parts is treated with III (prepared from II 88 parts) to give I [R = H, R' = p-[N-[3-methyl-4-(4,8-disulfo-2-naphthylazo)phenyl]sulfamoyl]phenyl] which is treated with HCHO to give a trimethylol derivative, yellow on cotton. Similarly prepared are polymethylolated IV (violet red shades on cotton) and the following methylolated I (R, R', and shade on cotton given): H, p-[N-[2-sulfo-4-(1-amino-2-sulfo-4- anthraquinonylamino)phenyl]sulfamoyl]benzyl, blue; H, p-[N-[3- sulfo-5-(2-amino-6-sulfo-8-hydroxy-1-naphthylazo)phenyl]sulfamoyl]phenyl, bluish red. Also prepared is I [R = R' = p-[N[2 - (2,5 - disulfophenylazo) - 1 - hydroxy - 3- sulfo- 7- naphthyl] sulfamoyl]phenyl], orange on cotton.				
IT	856614-19-2, 2,2'-Biphenyldisulfonic acid, 4,4'-bis[[8-[p-(hexahydro-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl)benzenesulfonamido]-1-hydroxy-3,6-disulfo-2-naphthyl]azo]-(poly(hydroxymethyl) derivative)				
RN	856614-19-2 HCAPLUS				
CN	2,2'-Biphenyldisulfonic acid, 4,4'-bis[[8-[p-(hexahydro-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl)benzenesulfonamido]-1-hydroxy-3,6-disulfo-2-naphthyl]azo]- (7CI) (CA INDEX NAME)				



L45 ANSWER 39 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1962:483828 HCAPLUS Full-text  
 DN 57:83828  
 OREF 57:16799c-g  
 TI Benzothiazole water-insoluble monoazo dyes  
 IN Fishwick, Brian R.  
 PA Imperial Chemical Industries Ltd.

SO 5 pp.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 908656		19621024	GB 1958-38962	19581203 <--
PRAI	GB		19581203	<--	
GI	For diagram(s), see printed CA Issue.				
AB	<p>Water-insol. monoazo dyes of the general formula I are described for the dyeing of artificial fibers in red shades of high light-fastness. In I, nucleus B may have a halogen atom, R and R' are CH<sub>2</sub>CH<sub>2</sub>CN or CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me. The benzothiazoles are prepared by ring closure of the appropriate phenylthioureas. Thus, 5.14 parts</p> <p>2-amino-6-dimethyl-sulfamoylbenzothiazole (II) was diazotized and coupled with 3.98 parts PhN(CH<sub>2</sub>CH<sub>2</sub>CN)<sub>2</sub> to give a dye, which when milled with aqueous di-Na dinaphthylmethanedisulfonate colors cellulose acetate in brilliant scarlet shades of excellent lightfastness. Similarly, diazotized II and PhN(CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>Me)<sub>2</sub> give a red dye. The following benzothiazole derivs. were prepared (substituents, m.p., reagents given): 2-NH<sub>2</sub>-6-MeNHSO<sub>2</sub>, 229-30°, Br, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NHMe, and KSCN; 2-NH<sub>2</sub>-6-HOCH<sub>2</sub>CH<sub>2</sub>NHSO<sub>2</sub>, 194°, Br, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>OH, and KSCN; and 2-NH<sub>2</sub>-6-iso-PrNHSO<sub>2</sub>, 214-15° Br, 4-H<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NH-iso-Pr, and KSCN. Iso-PrNH<sub>2</sub> and 4-AcNHC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>Cl gave 4-AcNHC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NH-iso-Pr, m. 160.5-2.5°, which was hydrolyzed to 4-iso-Pr-NHSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NH<sub>2</sub>, m. 116.5-17°. 2-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>Cl and Me<sub>2</sub>NH gave 2-O<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>SO<sub>2</sub>NMe<sub>2</sub> which was reduced and treated with BzSCN to give 2-Me<sub>2</sub>NSO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NHC(:S)NHBz, m. 157.5-8°, which was treated with Br in CHCl<sub>3</sub> to give the 4-Me<sub>2</sub>NSO<sub>2</sub> analog, m. 284°, of II. Similarly was prepared the 4-chloro derivative, m. 251-2°, of II from 3,4-Cl<sub>2</sub>C<sub>6</sub>H<sub>3</sub>SO<sub>2</sub>NMe<sub>2</sub> (III), m. 127-8°; then the 4-NH<sub>2</sub> analog, m. 174-5° of III; then 2,4-Cl(Me<sub>2</sub>NSO<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>NHC(:S)NHBz, m. 196-7°, then 2,4-Cl(Me<sub>2</sub>NSO<sub>2</sub>)C<sub>6</sub>H<sub>3</sub>NHC(:S)NH<sub>2</sub>, m. 150-1°.</p>				
IT	103760-66-3				
	(Derived from data in the 7th Collective Formula Index (1962-1966))				
RN	103760-66-3 HCAPLUS				
CN	<p>2-Naphthalenesulfonic acid, 6-[hexahydro-3,4,6-tris(hydroxymethyl)-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl]-3-[2-[4-[hexahydro-3,4,6-tris(hydroxymethyl)-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl]phenyl]diazenyl]-4-hydroxy- (CA INDEX NAME)</p>				



L45 ANSWER 40 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1962:483827 HCAPLUS Full-text  
 DN 57:83827  
 OREF 57:16798h-i,16799a-c  
 TI Water-soluble dyes containing sulfonic acid and methylol groups  
 IN Lange, Guenter; Krehbiel, Guenter; Kohler, Fritz; Grasshoff, Hans J.  
 PA Badische Anilin- & Soda-Fabrik A.-G.



SO 7 pp.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 900764		19620711	GB 1960-20433	19600610 <--
	DE 1153839			DE	
	US 3117961		1964	US	<--
PRAI	DE		19590611	<--	

GI For diagram(s), see printed CA Issue.

AB Cotton dyes of the formula I, in which D is the residue of an azo or anthraquinone dye, m is 1-2, and n is 1-3 have excellent fastness properties. They are prepared by conventional methods. Thus, 23.3 parts N-(4-aminophenyl)glyoxaldiureine (II) is diazotized and coupled with 22.4 parts 2,5-HOC10H6SO3H. The product is salted out, filtered, stirred as an aqueous paste for 20 hrs. at room temperature with 15% aqueous HCHO 100 and NaOH 2 parts. The brilliant red dye is salted out, filtered, and dried at 40-50° in vacuo. Glyoxalmonoureine di-Me ether (IIa) (0.9 part) is dissolved at 85° in a solution of 4-AcNHC6H4NHCONH2 1 in 3% AcOH 30, concentrated HCl 0.6 part is added, the solution is heated at 85° for 20 min., and cooled to give 1.2 parts N-(4-acetamidophenyl)glyoxaldiureine (III). The hydrolysis of III with 4% aqueous NaOH yields 0.5 part II. Other dyes are prepared similarly (reactants, shade on cotton given): N-(4-amino-3-sulfophenyl)glyoxaldiureine (IV), 2,7-HOC10H6SO3H, brilliant red; IV, 1-(2-chloro-5-sulfophenyl)-3-methyl-5-pyrazolone, brilliant red; 4-H2NC6H4SO3H, N-(4-hydroxyphenyl)glyoxaldiureine (V), yellow; 2-H2NC6H4CO2H, N-(8-hydroxy-6-sulfo-2-naphthyl)glyoxaldiureine (VI), orange-red; II, VI, brilliant red; 4-O2NC6H4NH2 → H acid, IV, navy blue; 2,4-HO(O2N)C6H3NH2, V (Cr complex), brown. Similarly, 1-amino-4-(4-ureidoanilino)-2-anthraquinonesulfonic acid and IIa gave a brilliant blue dye.

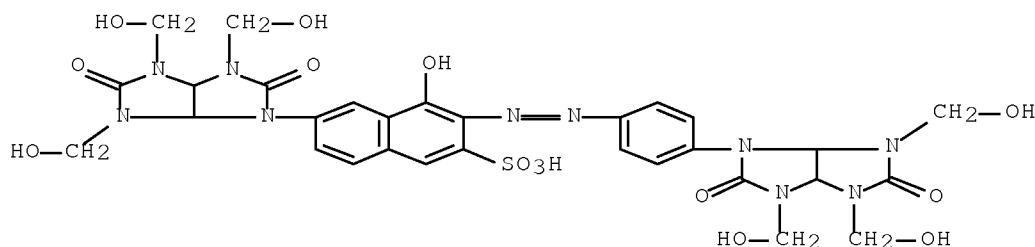
IT 103760-66-3P, 2-Naphthalenesulfonic acid, 6-[hexahydro-3,4,6-tris(hydroxymethyl)-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl]-3-[[p-[hexahydro-3,4,6-tris(hydroxymethyl)-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl]phenyl]azo]-4-hydroxy-

RL: PREP (Preparation)

(preparation of)

RN 103760-66-3 HCAPLUS

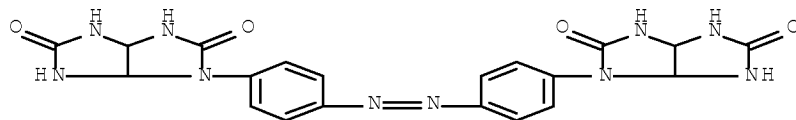
CN 2-Naphthalenesulfonic acid, 6-[hexahydro-3,4,6-tris(hydroxymethyl)-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl]-3-[[2-[4-[hexahydro-3,4,6-tris(hydroxymethyl)-2,5-dioxoimidazo[4,5-d]imidazol-1(2H)-yl]phenyl]diazenyl]-4-hydroxy- (CA INDEX NAME)



L45 ANSWER 41 OF 41 HCAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1961:56819 HCAPLUS Full-text  
 DN 55:56819  
 OREF 55:10899c-e

TI Azo dyes  
 IN Kohler, Fritz  
 PA Badische Anilin- & Soda-Fabrik Akt.-Ges.  
 DT Patent  
 LA Unavailable  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 1070760		19591210	DE	<--
AB	H <sub>2</sub> O-insol. azo pigment dyes, which can be solubilized by HCHO, are prepared by treating glyoxalmonoureine (I), with urea derivs. which contain an azo constituent. Thus, 2 parts I is refluxed with 2.4 parts p-ureidoazobenzene and 0.5 part concentrated HCl in 60 parts EtOH for 90 min. to give a dye (II), m. >350°, an orange colored pigment, and insol. in most solvents. Similarly, p,p'-diureidoazobenzene and glyoxalmonoureine di-Me ether give an orange dye. II, treated with HCHO in aqueous NaOH, gives p-[N,N',N''-tris(hydroxymethyl)glyoxaldiureine-N'''-yl] azobenzene, m. 90° (approx.).				
IT	102077-47-4F, Glycoluril, 1,1'-(azodi-p-phenylene)di- RL: PREP (Preparation) (preparation of)				
RN	102077-47-4 HCAPLUS				
CN	Glycoluril, 1,1'-(azodi-p-phenylene)di- (6CI) (CA INDEX NAME)				



OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

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